

1998/1999 - OYSTER DATA REPORT

Series No. 4

**97/98 OYSTER PRODUCTION AND DENSITIES AND STOCK
ASSESSMENT FOR THE 1998-99 OYSTER SEASON ON LOUISIANA
PUBLIC OYSTER GROUNDS.**

PREPARED BY:

**RONALD J. DUGAS
ROBERT L. ANCELET**

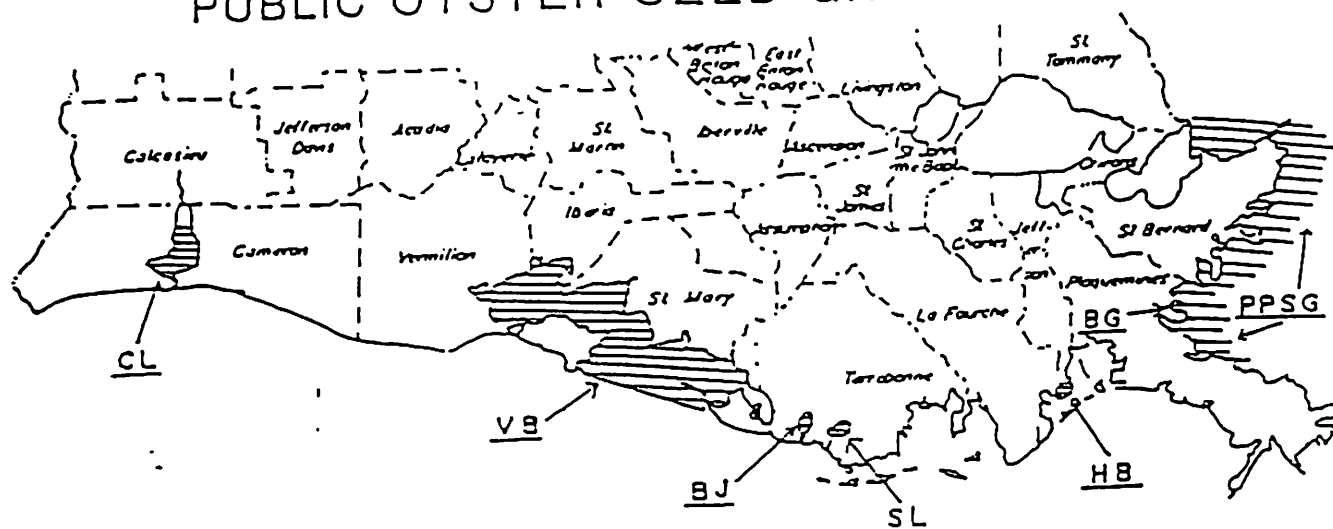
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

AUGUST 1998

INTRODUCTION

In Louisiana, there are almost 2 million acres of public reef/seed grounds, although only a relatively small portion of this area has the hard bottom substrate necessary for the existence of oysters. These public reefs are opened each year in the fall and winter both to lessees who may wish to transplant oysters to their leases and to other fishermen who may wish to harvest oysters and bring them directly to market. Each year in the summer biological samples (Figure 3) are taken on these reefs and the results used to make recommendations as to opening and closing of areas to harvest and to advise the oyster industry on the availability of oysters on these reefs.

PUBLIC OYSTER SEED GROUNDS

**LEGEND**

- PPSG—PRIMARY OYSTER SEED GROUNDS
 BG—BAY GARDENS OYSTER SEED RESERVATION
 HB—HACKBERRY BAY OYSTER SEED RESERVATION
 SL—SISTER LAKE OYSTER SEED RESERVATION
 BJ—BAY OF JEAN BAPTISTE OYSTER SEED RESERVATION
 VB—VERMILION BAY OYSTER SEED GROUNDS
 CL—CALCASIEU LAKE PUBLIC TONGING GROUNDS

Figure 1. Louisiana Public Oyster Seed Grounds, Oyster Seed Reservation and Public Tonging Grounds.

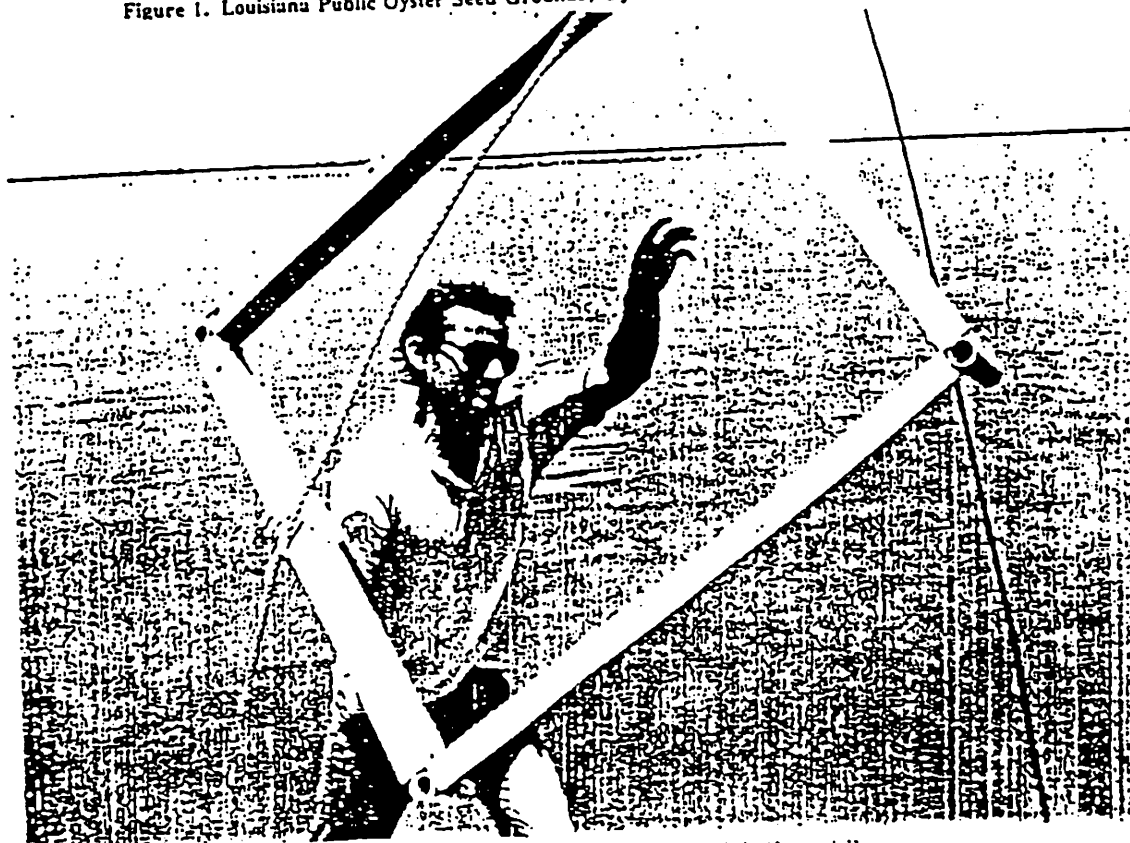
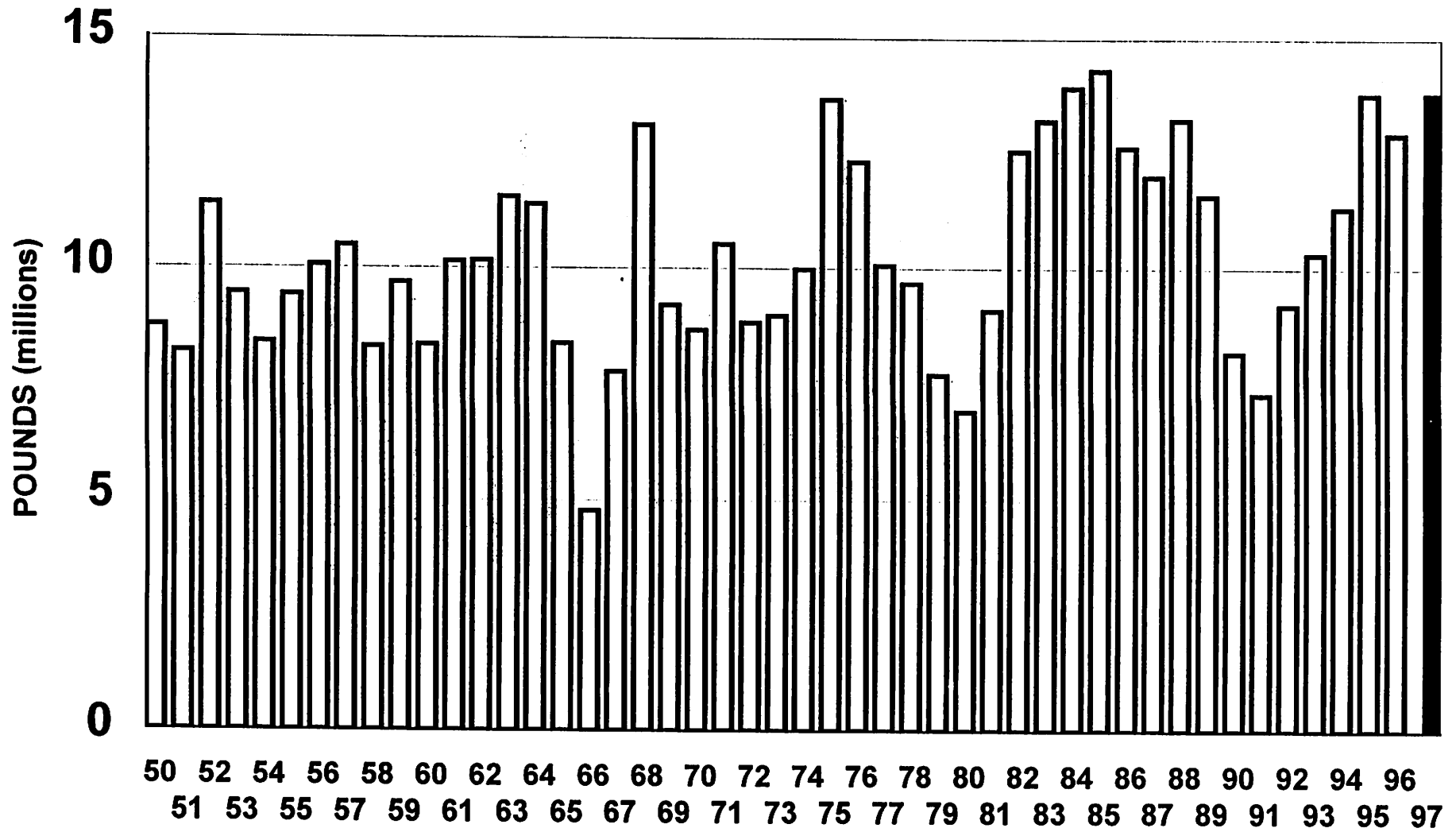


Figure 3. Meter square sampling for oyster densities on the "Public Grounds".

□ LA Oyster
production thru 1996
■ 1997

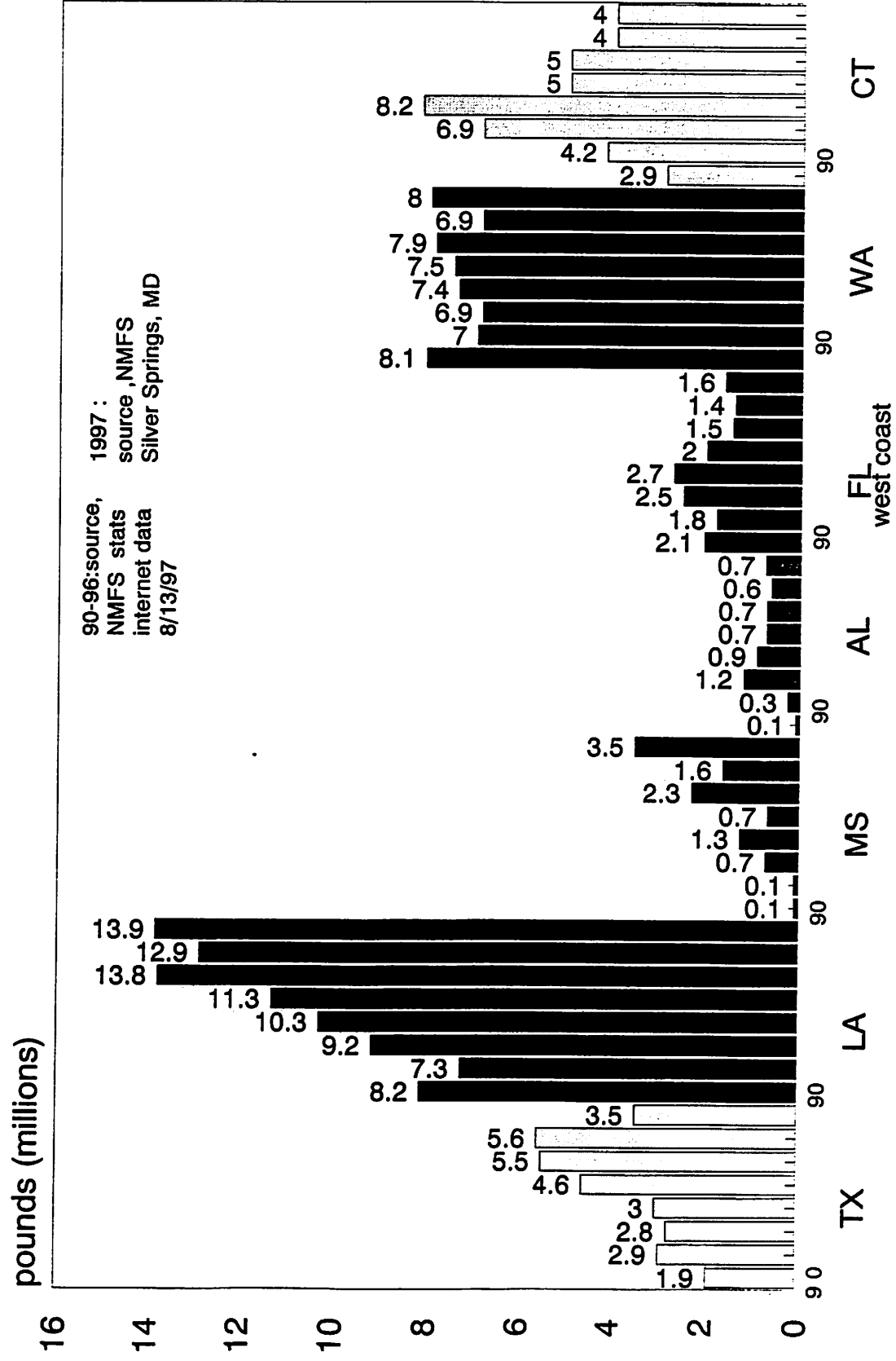


source: NMFS internet data, Preliminary '97 LDWF data

OYSTER LANDINGS

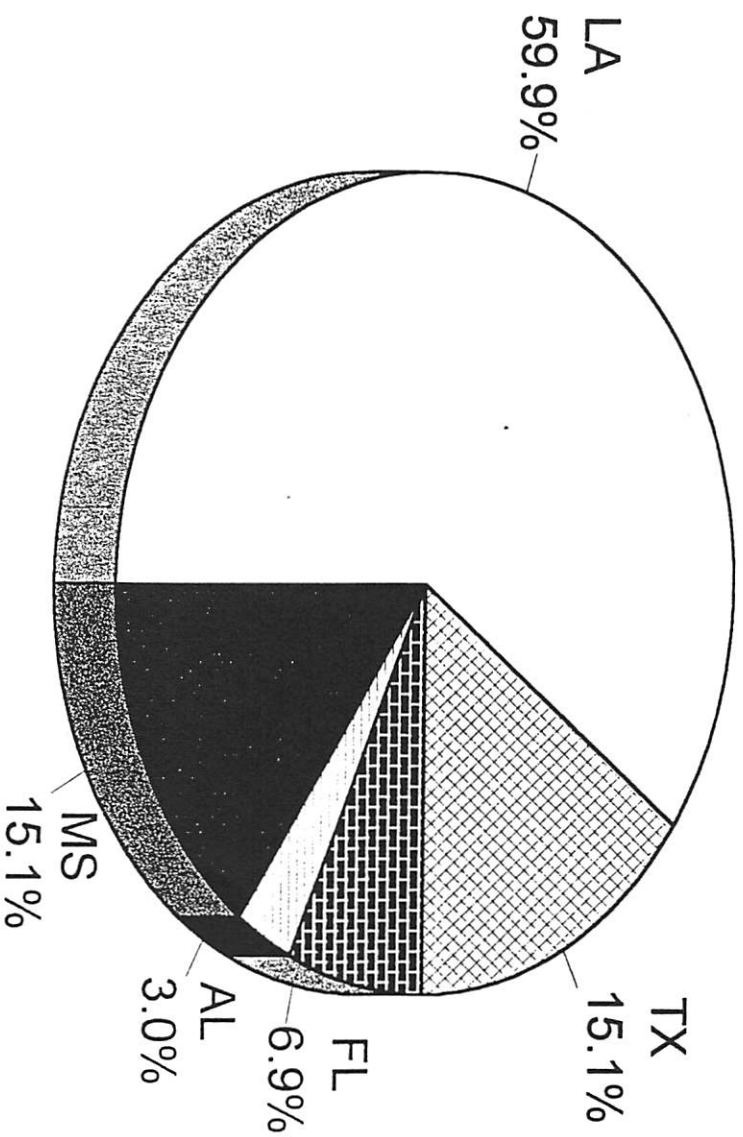
1990 -1997 by KEY STATE

'97 PRELIMINARY



1997 OYSTER LANDINGS

Gulf of Mexico - 58% of U.S. Production

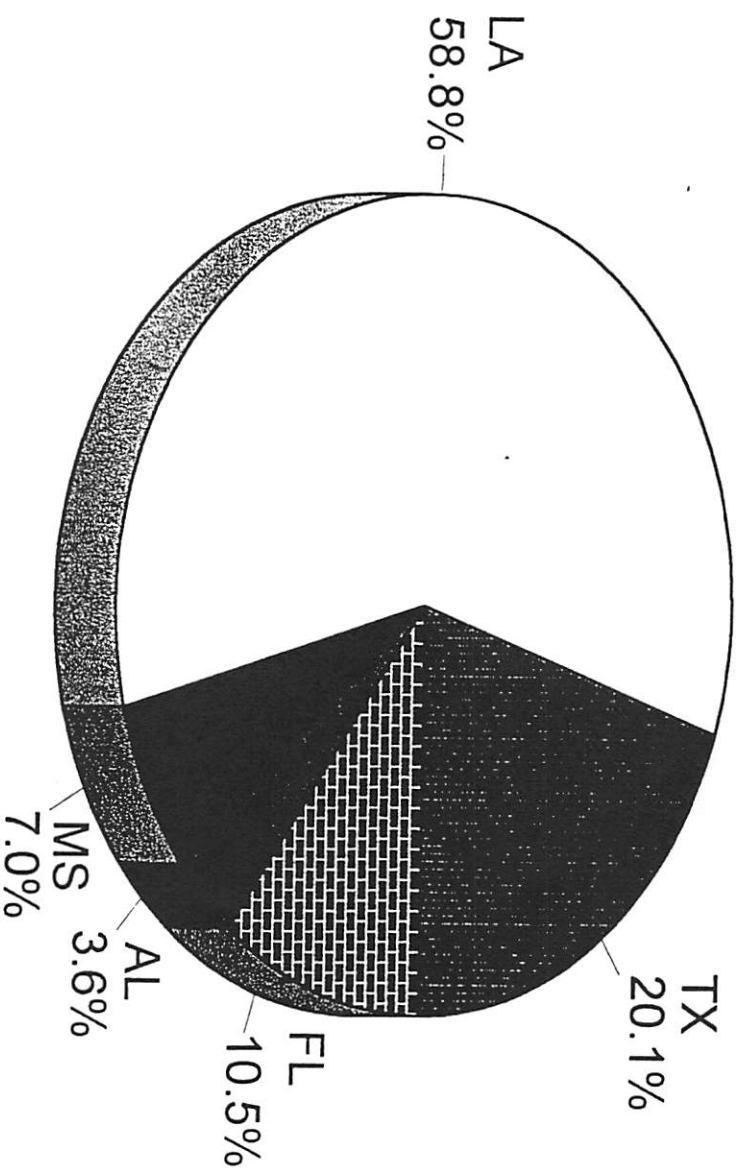


■ Texas 3.5M □ Louisiana 13.9M ■ Mississippi 3.5 M
■ Alabama 0.7M ■ Florida 1.6 M

Preliminary - NMFS statistics

Average 1990-97 OYSTER LANDINGS

Gulf Mexico - 52 % of U.S. Production



■ Texas 3.7M □ Louisiana 10.9M ■ Mississippi 1.3M
■ Alabama 0.7M ▨ Florida 1.9M

Preliminary - NMFS statistics

1997/98 M² SAMPLES

AND

STOCK ASSESSMENT

COASTAL STUDY AREA I
JOHN BURDON

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(504)765-2800

M.J. "Mike" Foster
Governor

TO: Ron Dugas, Oyster Prog. Mgr.
FROM: John F. Burdon, Bio. Sup./ CSA-I 88
REFERENCE: Oyster Square Meter Samples
Date: July 25, 1997

The following information on oysters by square meter for production analysis was acquired during July between the 1 and the 11 of 1997.

Hospital Wall (sta.1)

No oysters were retrieved from either dredge or square meter sampling efforts.

Grassy Island (sta.2)

Only one of the two square meters samples produced oysters.

Seed oysters (25-75 mm.) -3

Half moon (sta.3)

Square meter sample 1. Seed - 3 Market (3">) - 4

Square meter sample 2. Seed - 2 Market - 1

Little Petite Island (sta. 4)

Square meter sample 1. Seed - 2 Market - 1

Square meter sample 2. Seed - 2

Three Mile (sta. 5)

Square meter sample 1. Spat (<25mm.) - 1 Seed - 10 Market - 7

Square meter sample 2. Seed - 2 Market - 3

Grand Pass (sta. 6)

Square meter sample 1. Seed - 19 Market - 12

Square meter sample 2. Spat - 2 Seed - 18 Market - 16

Cabbage Reef (Sta.7)

Square meter sample 1. Spat - 1 Seed - 15 Market - 18

Square meter sample 2. Seed - 18 Market - 23

Martin Island (sta.9)

No oysters were retrieved in square meter samples

One market oyster was retrieved from a three dredge sample effort.

Holmes Island (10)

No oysters were retrieved from three dredge samples and two square meter samples.

Turkey bayou (11)

One seed oyster was retrieved from a three dredge sample effort.

No oysters were retrieved from two square meter samples.

cc: Claude Boudreaux, Asst. Div. Adm. Mar. Fish.

Attachments (2) ----- Location Map....seed/market Oyster Availability

July

To: Ancelet

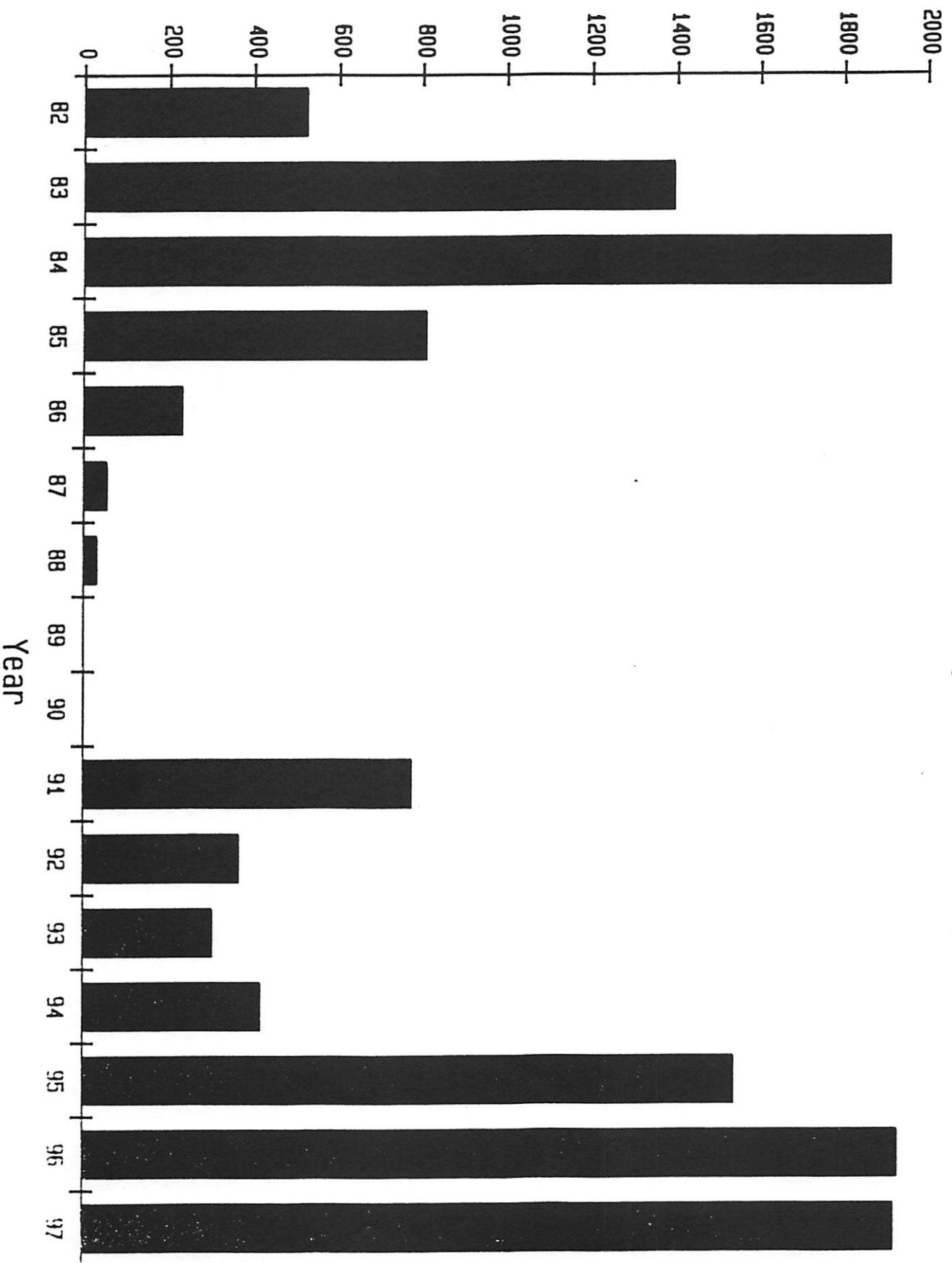
1997

COASTAL STUDY AREA I OYSTER AVAILABILITY

Meter ² Station	Reef Acreage	# Meter ²	#Seed Oyster	#Sack Oyster	BBLS Seed	BBLS Sack
001	376.07	1,521,955.29	0	0	0	0
002			2	0		
003			3	3		
004			2	1		
002-004	6850.17	27,722,638.00	7	4	269,525.6	308,029.3
005	3058.65	12,378,356.55	6	5	103,152.9	171,921.6
006			19	14		
007			17	21		
008			<u> </u>	<u> </u>		
011			0	0		
006-011	1801.76	7,291,722.72	36	35	364,586.1	708,917.5
009			0	0		
010			0	0		
009-010	4155.70	16,818,117.90	0	0		
Lake Pont.	631.27	2,554,749.69	N/R	N/R		
ELO1	2691.84	10,893,876.48	<u> </u>	<u> </u>		
TOTALS					737,264.6	1,188,868.4

AREA 1
M² 1997
S = SPAT
SEED
SACK
M = MUSSELS

Oysters Available on the Public Grounds
in Coastal Study Area I
(Seed and Sack Oysters Combined)



COASTAL STUDY AREA II
ROBERT L. ANCELET

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
1600 Canal Street
New Orleans, LA 70112
(504)568-5667

M.J. "Mike" Foster
Governor

August 4, 1997

MEMORANDUM

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, *RLA* Biologist Supervisor C.S.A.II

SUBJECT: C.S.A. II Meter Square Samples

Personnel from Coastal Study Area II completed the 1997 meter square sampling project on July 9, 1997. A total of 27 stations were sampled from Bay Gardene and Northern Black Bay to Breton Sound.

With the exception of Northern Black Bay, Bel la Pass, and California Bay, stock assessments were generally down from last year. The total stock assessment for Coastal Study Area II was down by 524,726 barrels of seed oysters and 292,699 barrels of sack oysters. We found 2,015,247 barrels of seed oysters and 1,763,799 barrels of sack oysters throughout the area. Large quantities of seed oysters were found in Northern Black Bay, the shellplants (Lonesome Island and Bay Crab) and Bel la Pass. "Hot spots" for sack oysters appear to be: Lake Fortuna, northern Black Bay, the Lonesome Island shellplant, Bel la Pass, and the Bay Crab shellplant.

The decrease in oyster stock assessment for Coastal Study Area II breaks an annual increasing trend that began in 1992. Even with this decrease, oyster stocks remain ample in sustaining production.

Mussels appeared at some stations in northern Black Bay and California Bay.

At stations where mussel infestations were encountered, corresponding increases in stocks at these locations were also observed.

Assessment for the 1994 shellplants are presented herein tabular from (see tables).

1997 OYSTER AVAILABILITY
1994 CSA II SHELLPLANTS

SEED OYSTERS

SHELLPLANTS	ACRES	#OYSTERS	BARRELS
Lonesome Is.	708	31.33	124,679
Bay Crab	137	48.33	37,217

SACK OYSTERS

SHELLPLANTS	ACRES	#OYSTERS	BARRELS
Lonesome Is.	708	11.67	92,883
Bay Crab	137	4	6,160

1996

Lonesome Is.

493,464 bbls seed

228,187 bbls sack

Bay Crab

64,169 bbls seed

60,572 bbls sack

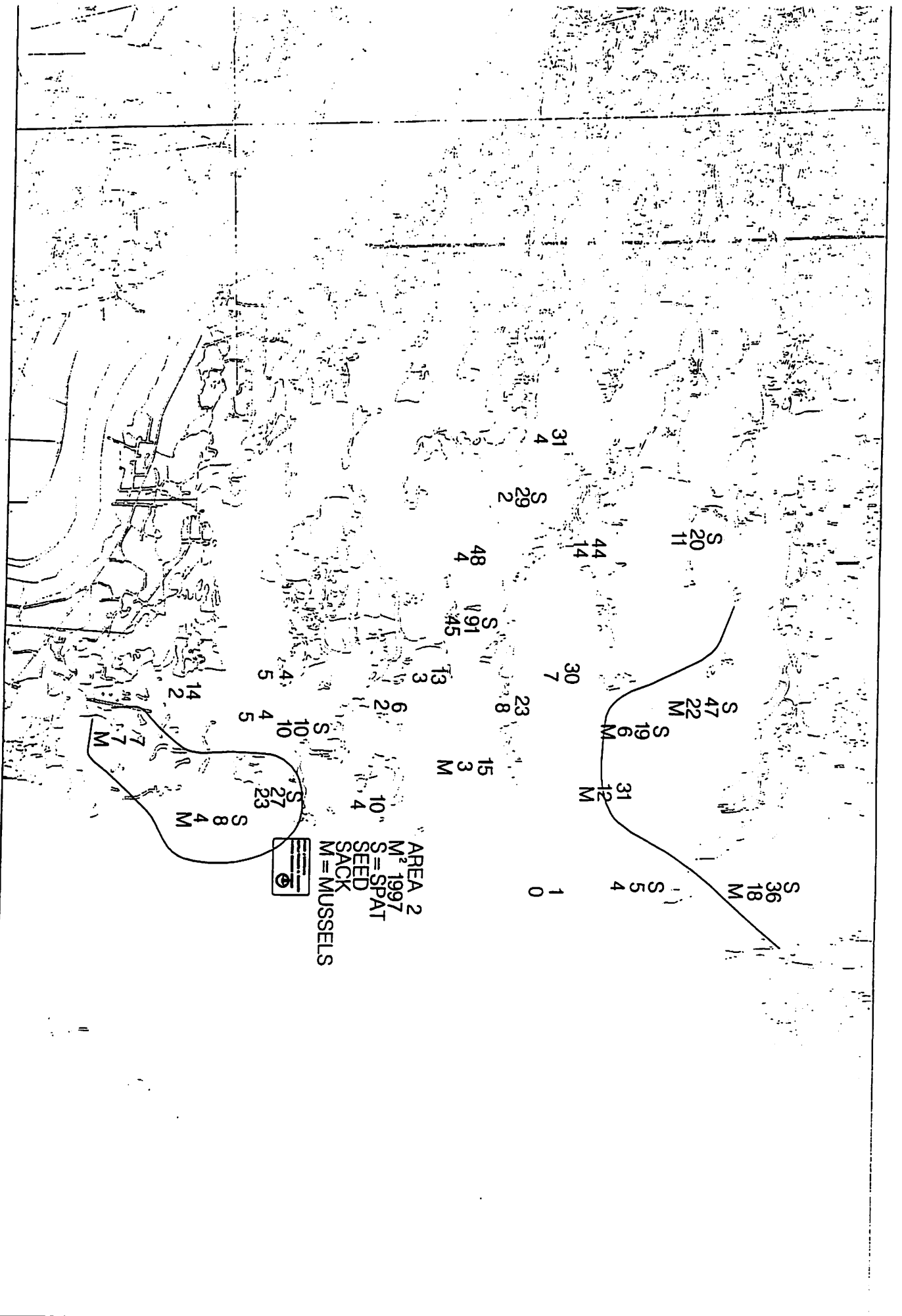
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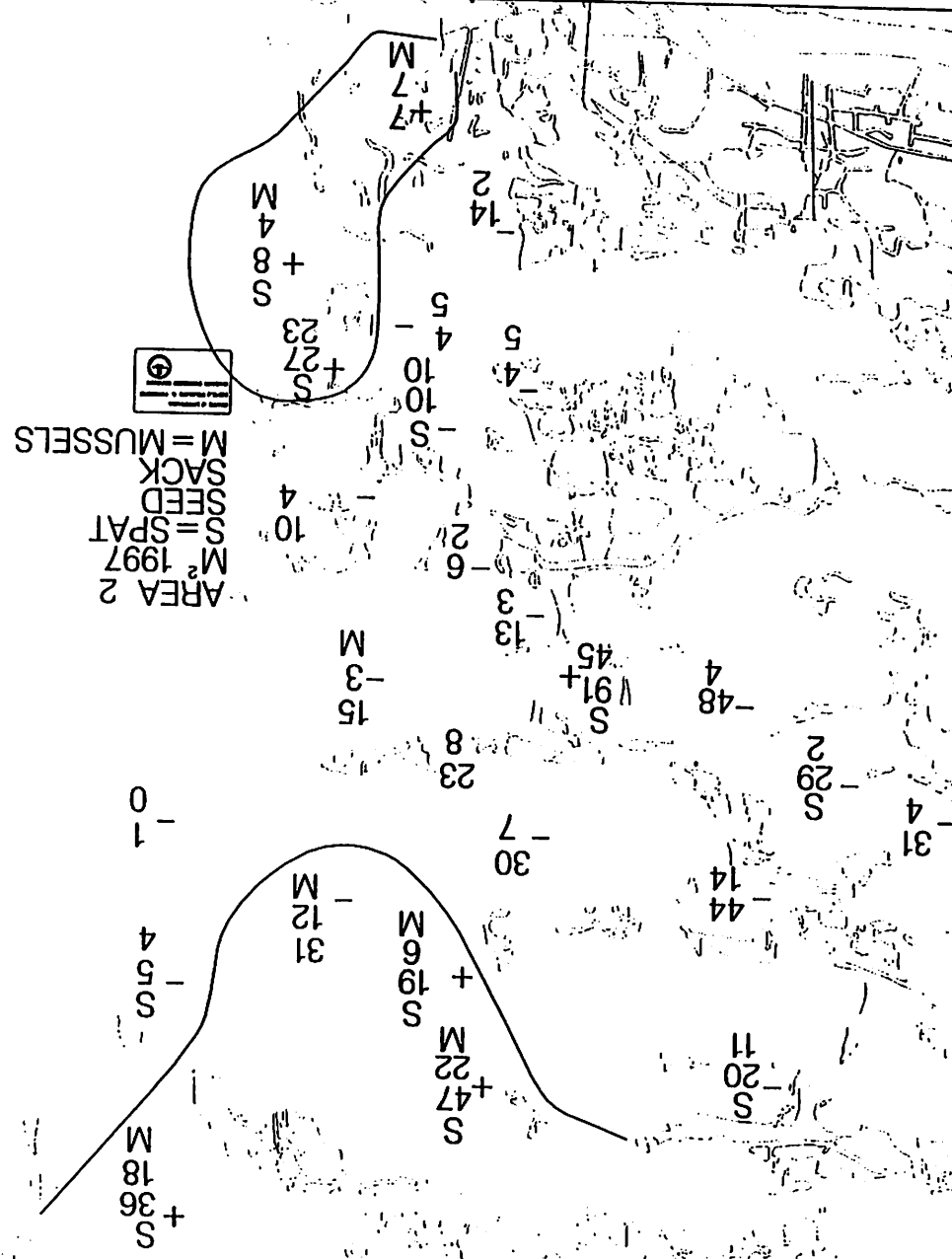
COASTAL STUDY AREA II

1997

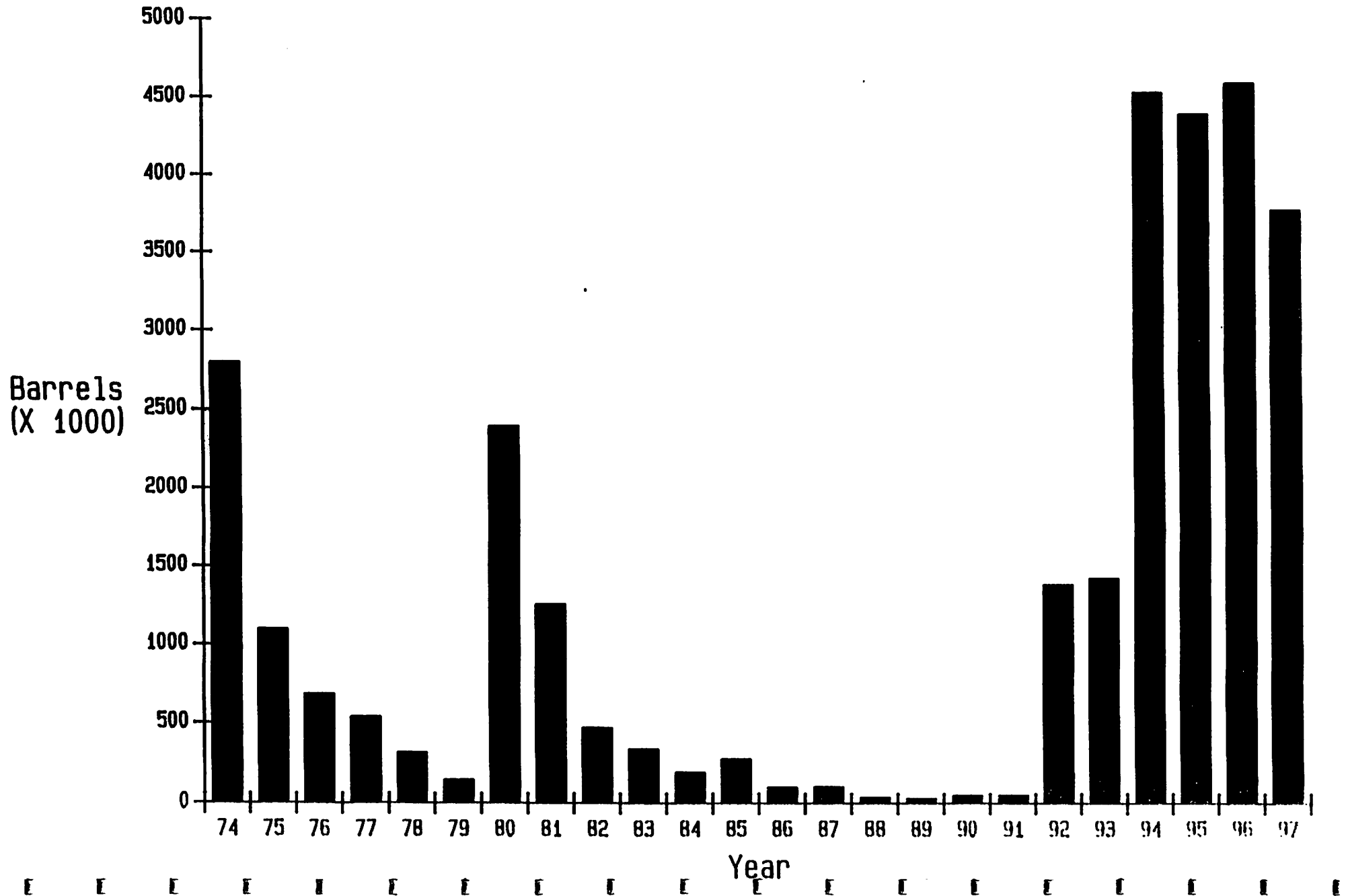
Meter ² Station	Grids	Acres	Meter ²	# Seed Oys	# Sack Oys	88LS Seed	88LS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	47.33	21.67	134,613	123,265
2	7,6,5,11, 12	59	283,773	20	10.67	7,882	8,411
3	13,14,15	896	3,626,112	19	6	95,689	60,435
5	17,18,25,24	118	477,546	43.67	13.67	28,964	18,133
6	20,21,16	716	2,897,652	31.33	11.67	126,088	93,932
7	19,26,27	301	1,218,147	30	6.67	50,756	22,570
8	31,36,32	501	2,027,547	48.33	4	136,099	22,528
9	33,34,35	461	1,865,667	22.67	8.33	58,742	43,169
10	40,44	145	586,815	15	2.67	12,225	4,352
11	42,43,46	339	1,371,933	5.67	2	10,804	7,622
12	47	108	437,076	9.67	4	5,870	4,856
13	50,51	109	441,123	10.33	10	6,329	12,253
14	48,49	7	28,329	4	5	157	393
16	62,63,64	174	704,178	13.67	1.67	13,370	3,267
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	193	781,071	7.33	7	7,952	15,187
20	56,58	293	1,185,771	3.67	5	6,044	16,469
21	37,38,41	659	2,666,973	91	45	337,076	333,372
22	39	122	493,734	12.67	2.67	8,688	3,662
23	30,23	28	113,316	28.67	2	4,512	630
24	22,29	69	279,243	31	3.67	12,023	2,847
4	Horseshoe	315	1,274,805	4.67	4.33	8,269	15,333
15	Outside	127	513,969	27.33	22.67	19,509	32,366
18	Outside	1,528	3,164,754	8	4	35,164	35,164
26	Same as #4						
25	Battledore	1,419	5,742,693	0	0	0	0
27	L. Fortuna	4,288	17,353,536	36.33	18.33	875,630	883,583
28	Wreck	2,276	9,210,972	1	0	12,793	0
					Total	2,015,247	1,763,799

✓
3,779,046





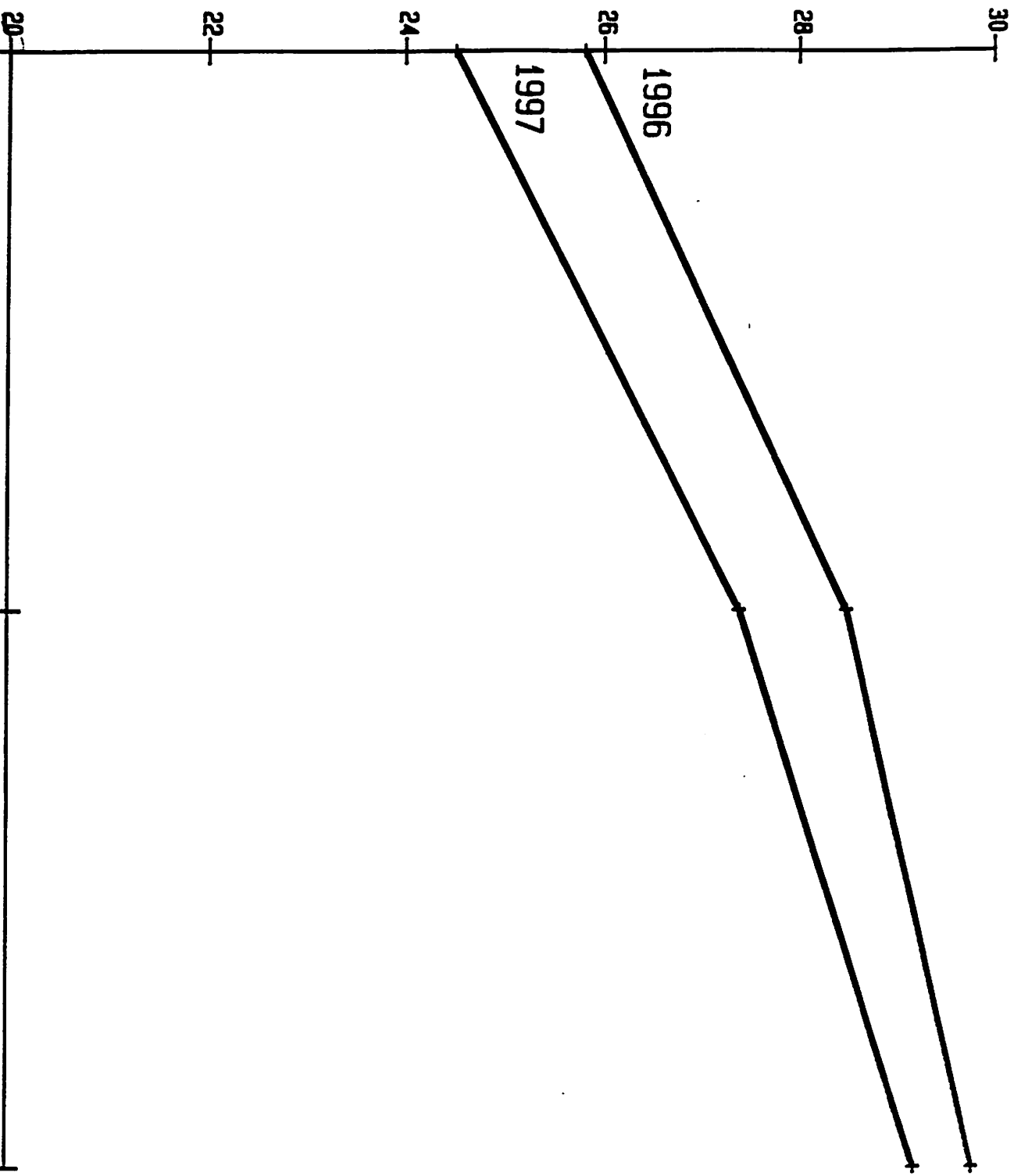
Oysters Available on the Public Grounds
in Coastal Study Area II
(Seed and Sack Oysters Combined)

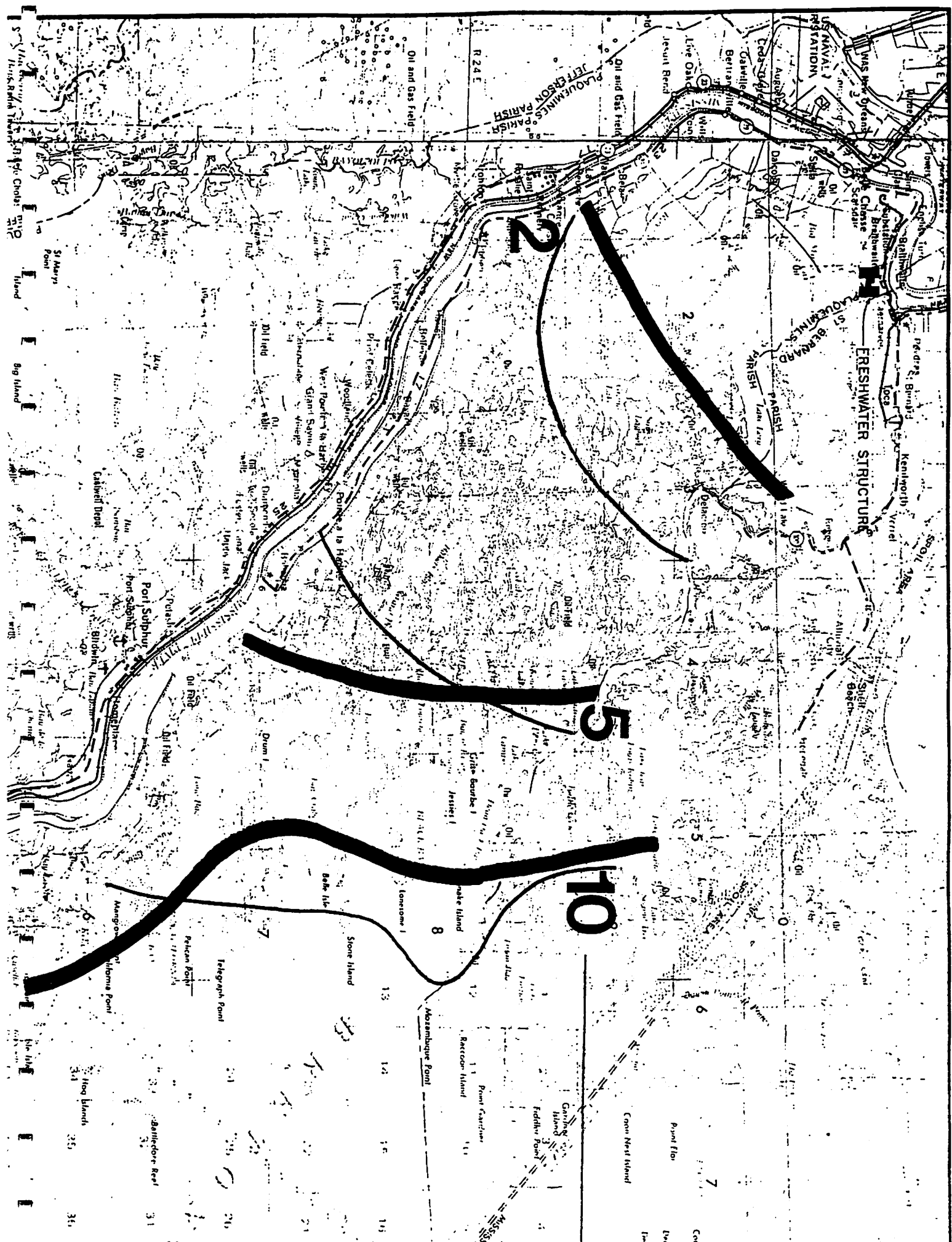


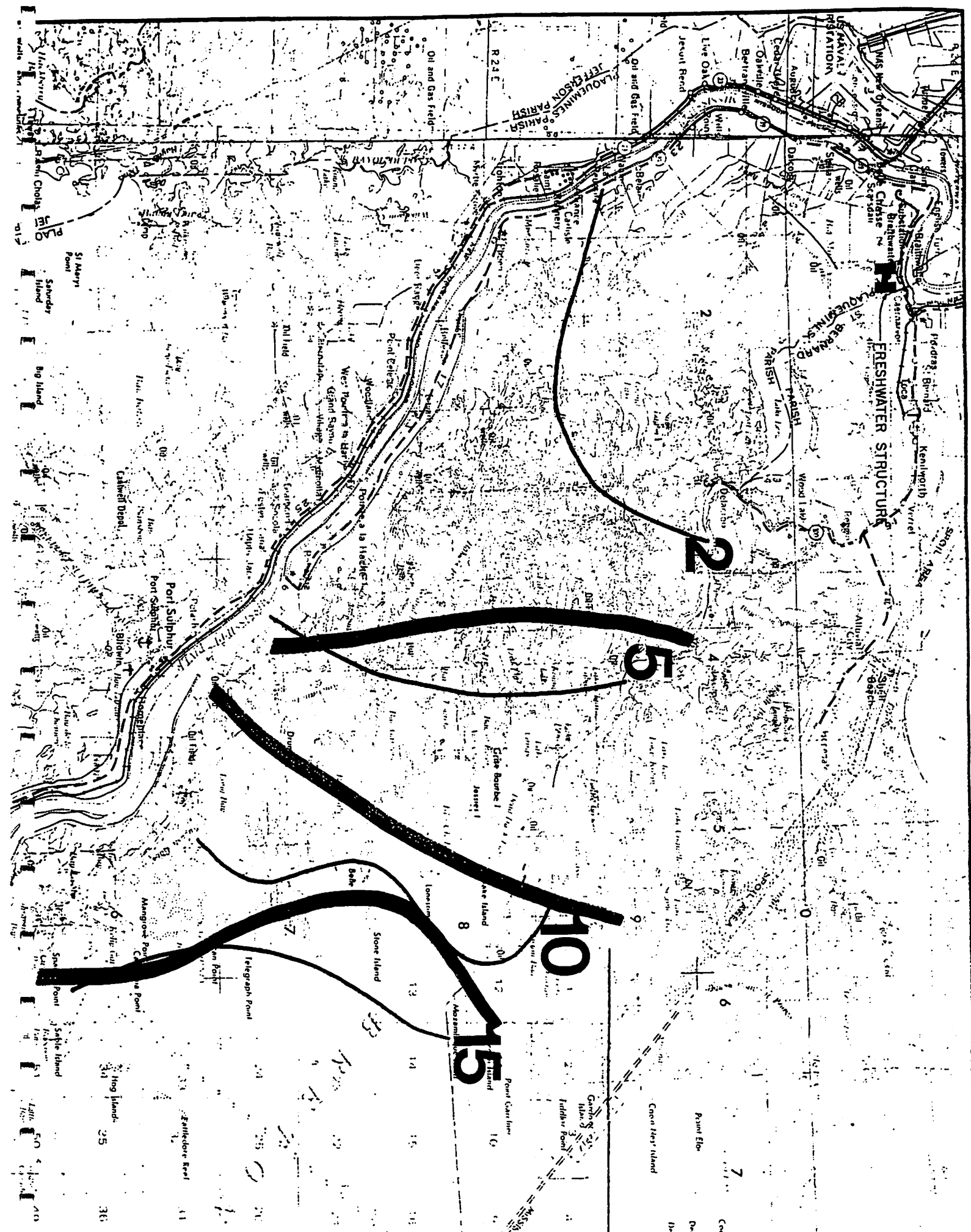
Average Monthly Temperature

Temperature
(Degrees Celcius)

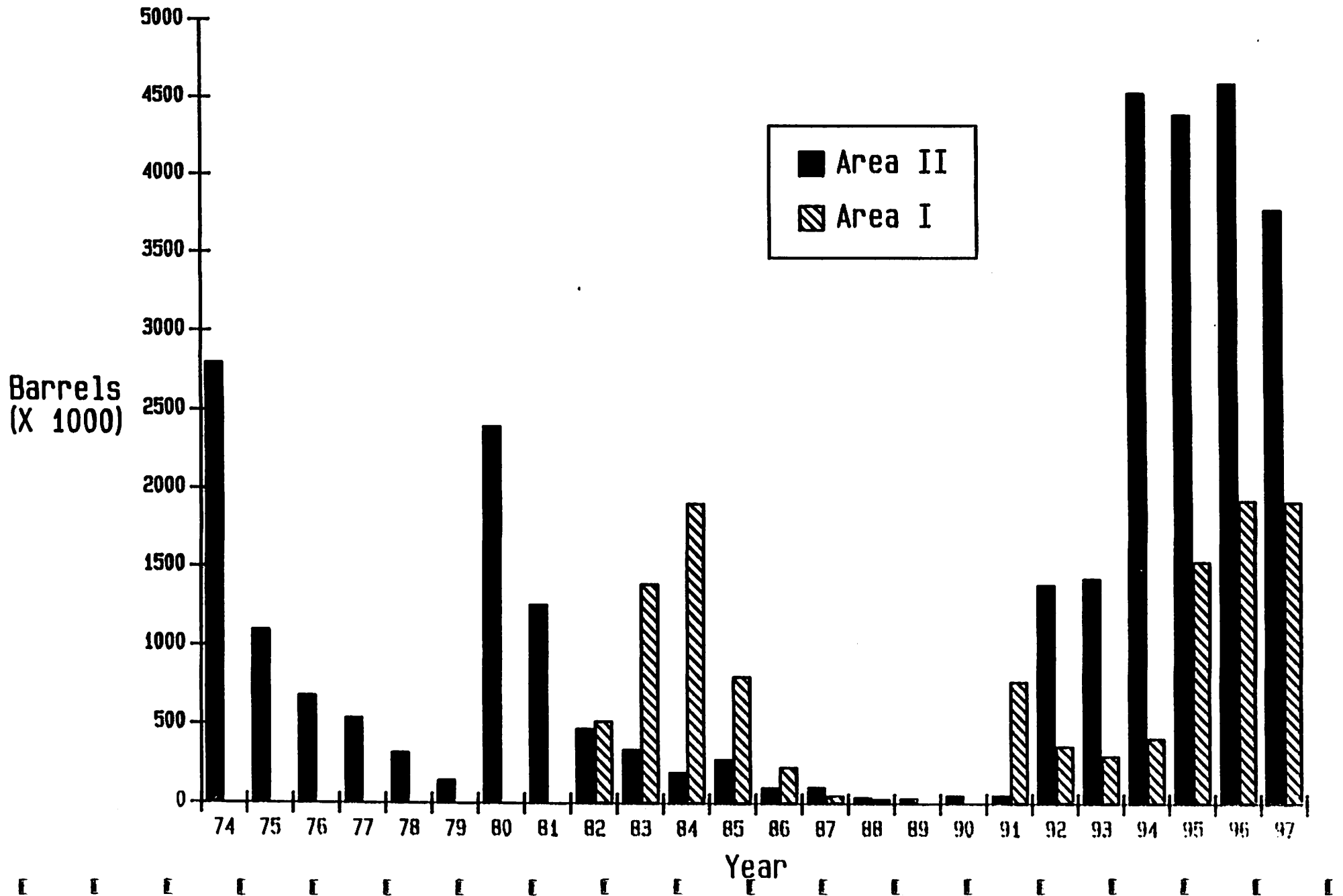
Month
May June July







Oysters Available on the Public Grounds
East of the Mississippi River
(Seed and Sack Oysters Combined)



COASTAL STUDY AREA III
RANDY PAUSINA

HACKBERRY BAY

38
4

AREA 3

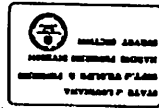
M² 1997

S=SPAT

SEED

SACK

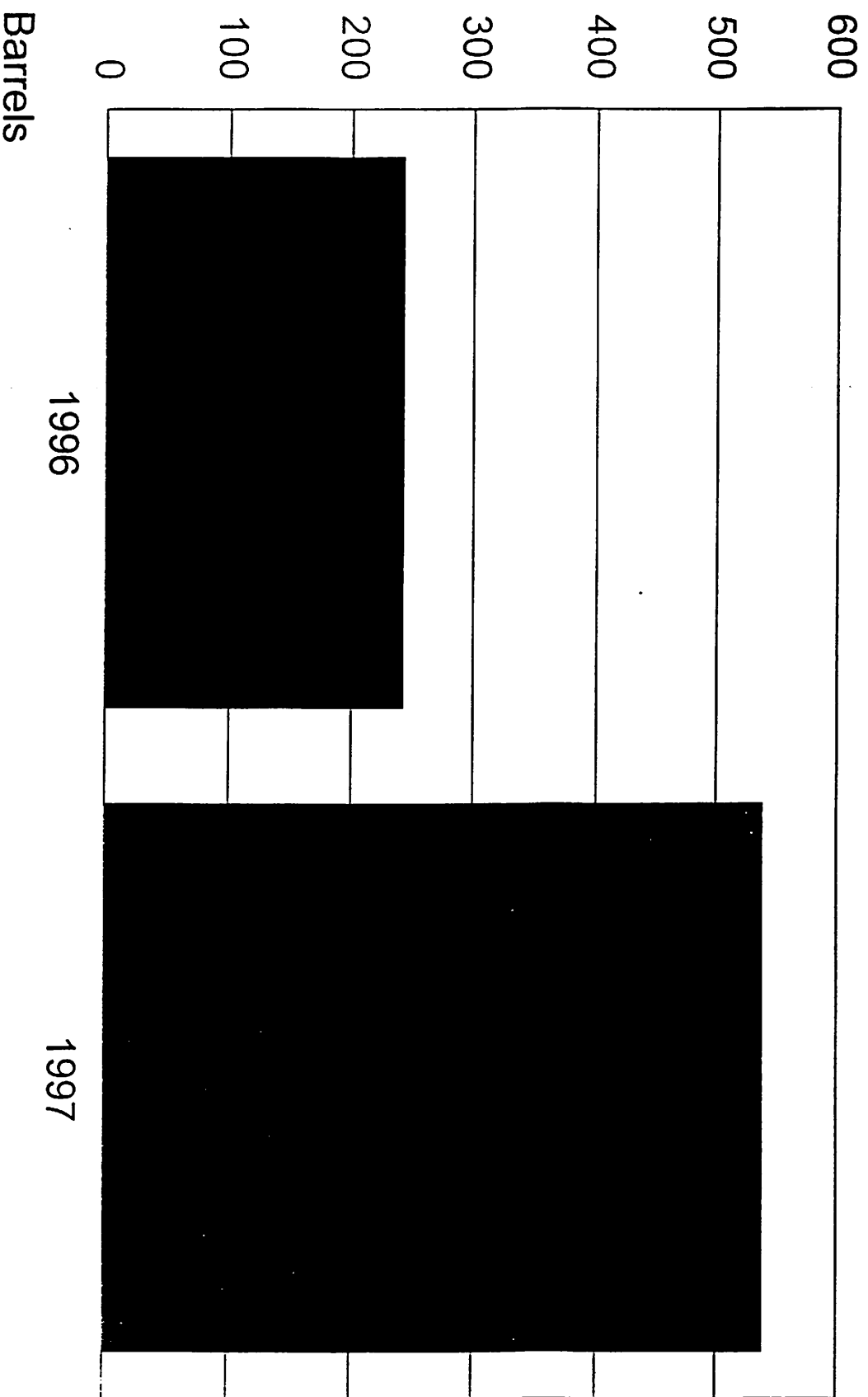
M=MUSSELS



31
1

OYSTER AVAILABILITY

Hackberry Bay



**COASTAL STUDY AREA V
MARTY BOURGEOIS
PAUL MEIER**

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
Post Office Box 189
Bourg, LA 70343
(504)594-4139

M.J. "Mike" Foster
Governor

July 23, 1997

MEMORANDUM

TO: Ron Dugas, Oyster Program Manager
FROM: Paul Meier, CSA-V Senior Field Biologist *PM*
SUBJECT: CSA-V Oyster Meter Square Samples

On July 8 and 9, 1997, Martin Bourgeois, Steve Hein, Randy Pausina and I completed the oyster meter square samples on the Sister Lake and Bay Junop Oyster Seed Reservations. A total of nine stations were sampled in Sister Lake, including the 1994 and 1995 shell plants, and five stations were sampled in Bay Junop.

The number of barrels of seed and sack oysters available for harvest in Sister Lake has increased based on the results of the meter square samples even though Sister Lake has been open to harvest for the past two seasons with a two year total harvest of 160,058 barrels of seed and sack removed during the 1995-96 and 1996-97 seasons. The estimated oysters available on the 1994 shell plant last year was 457,049 barrels and this year it has increased to 481,964 (see enclosed tables). The total amount of oysters available in Sister Lake, including the 1994 and 1995 shell plants, is 540,270.2 barrels of seed oysters and 557,072.2 barrels of sack oysters.

While the amount of oysters available in Sister Lake has increased, the amount in Bay Junop has decreased. There are approximately 17,262 barrels of seed oysters and 29,243 barrels of sack oysters available in Bay Junop this year. Last year we had approximately 62,841 barrels of seed and 117,669 barrels of sack oysters available. There was almost three times the effort by boats harvesting oysters in Bay Junop last season than we normally experience so the reefs were worked fairly hard.

We have not experienced any hooked mussel infestations on the seed grounds in our area as they have east of the Mississippi River according to Bob. Dr. Tom Soniat indicated that there were no detrimental levels of "dermo" in our oyster samples from Sister Lake and Bay Junop. Salinities have been averaging at or below 5 ppt in the upper portion of Sister Lake for the past three months.

If you need any additional information, please let me know.

PM/jbv

1997 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
200	221.58	896,734.26	54.5	36.0	67,877.8	89,673.4
202	81.93	331,570.71	43.5	14.0	20,032.4	12,894.4
207	185.72	751,608.84	24.5	9.0	25,575.6	18,790.2
203	151.31	612,352.00	27.5	7.5	23,388.4	12,757.3
TOTALS					136,874.2	134,115.3

1997 BAY JUNOP OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
251	17.2	69,608.40	10.5	8.5	1,015	1,643
253	73.26	296,483.22	14.0	6.5	5,765	5,353
254	94.20	381,227.40	10.5	13.5	5,560	14,296
252	67.36	272,605.92	13.0	10.5	4,922	7,951
255						
TOTALS					17,262	29,243

1997 OYSTER AVAILABILITY
1994 COASTAL STUDY AREA V SHELLPLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SEED
North	96	174.0	93,890.4
Mid	129	103.5	75,046.6
South	81	112.5	51,219.8

TOTAL = 220,156.8

SACK OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SACK
North	96	110.0	118,712.0
Mid	129	61.0	88,461.0
South	81	60.0	54,634.5

TOTAL = 261,807.5

1997 OYSTER AVAILABILITY
1995 COASTAL STUDY AREA V SHELLPLANTS

SEED OYSTERS

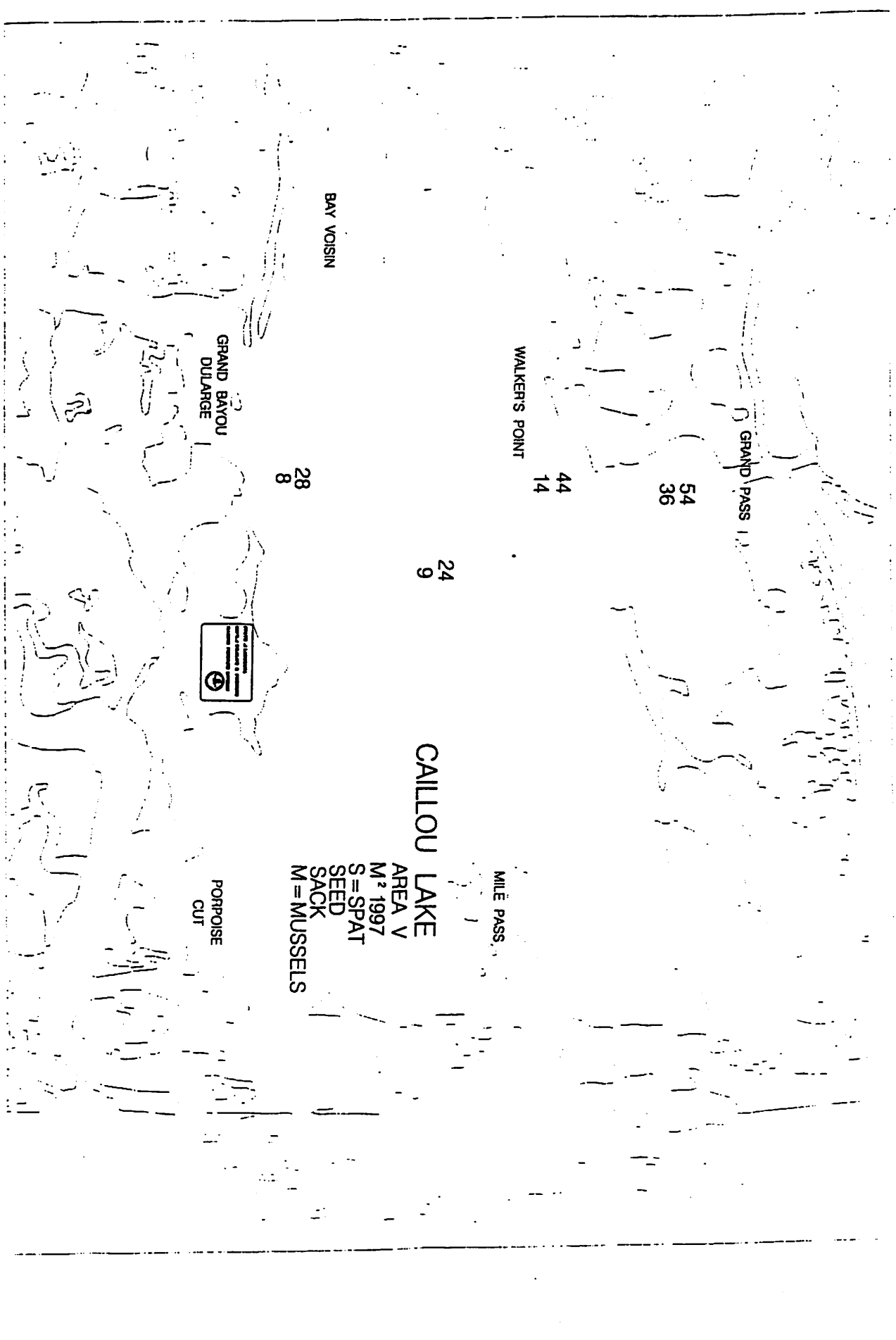
SHELLPLANT	ACRES	# OYSTERS	BARRELS SEED
North	115	74.0	47,833.3
Camp	438	55.0	135,405.9

TOTAL = 183,239.2

SACK OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SACK
North	115	58.0	74,982.0
Camp	438	17.5	86,167.4

TOTAL = 161,149.4



BAY VOISIN

GRAND BAYOU
DULARGE

28
8



PORPOISE
CUT

WALKER'S POINT

44
14

54
36

GRAND PASS

24
9

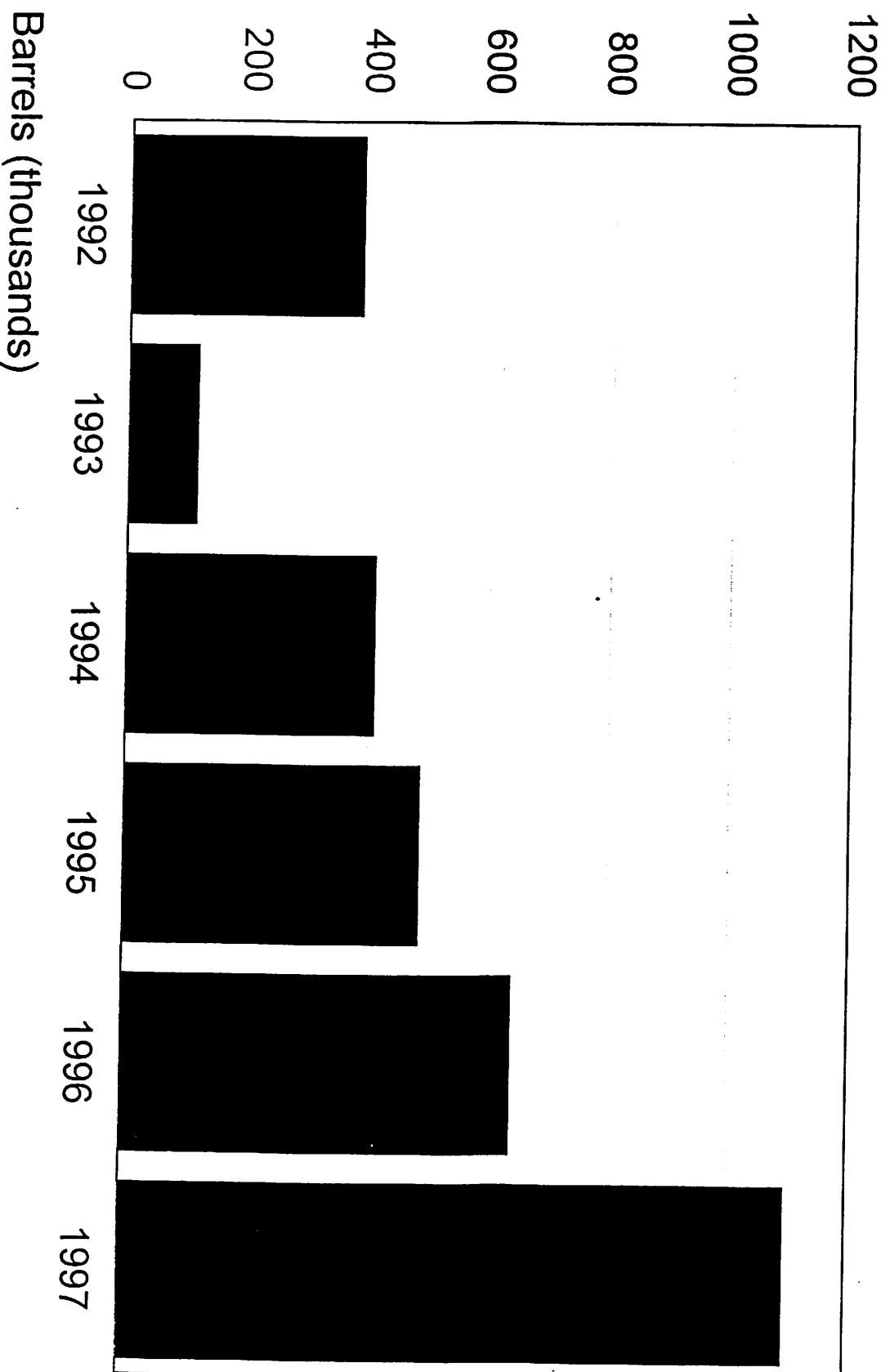
CAILLOU LAKE

MILE PASS

AREA V
M² 1997
S=SPAT
SEED
SACK
M=MUSSELS

OYSTER AVAILABILITY

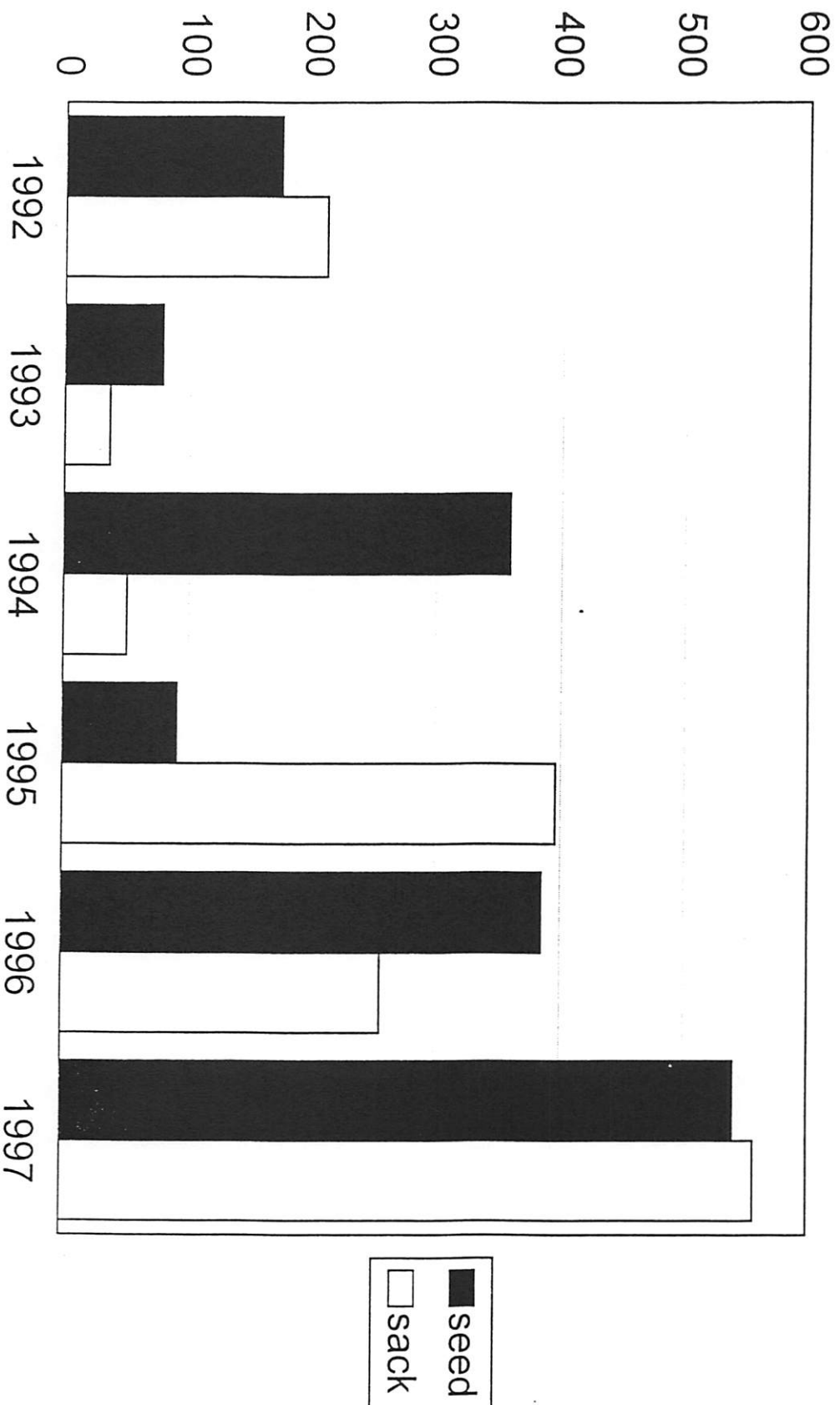
SISTER LAKE

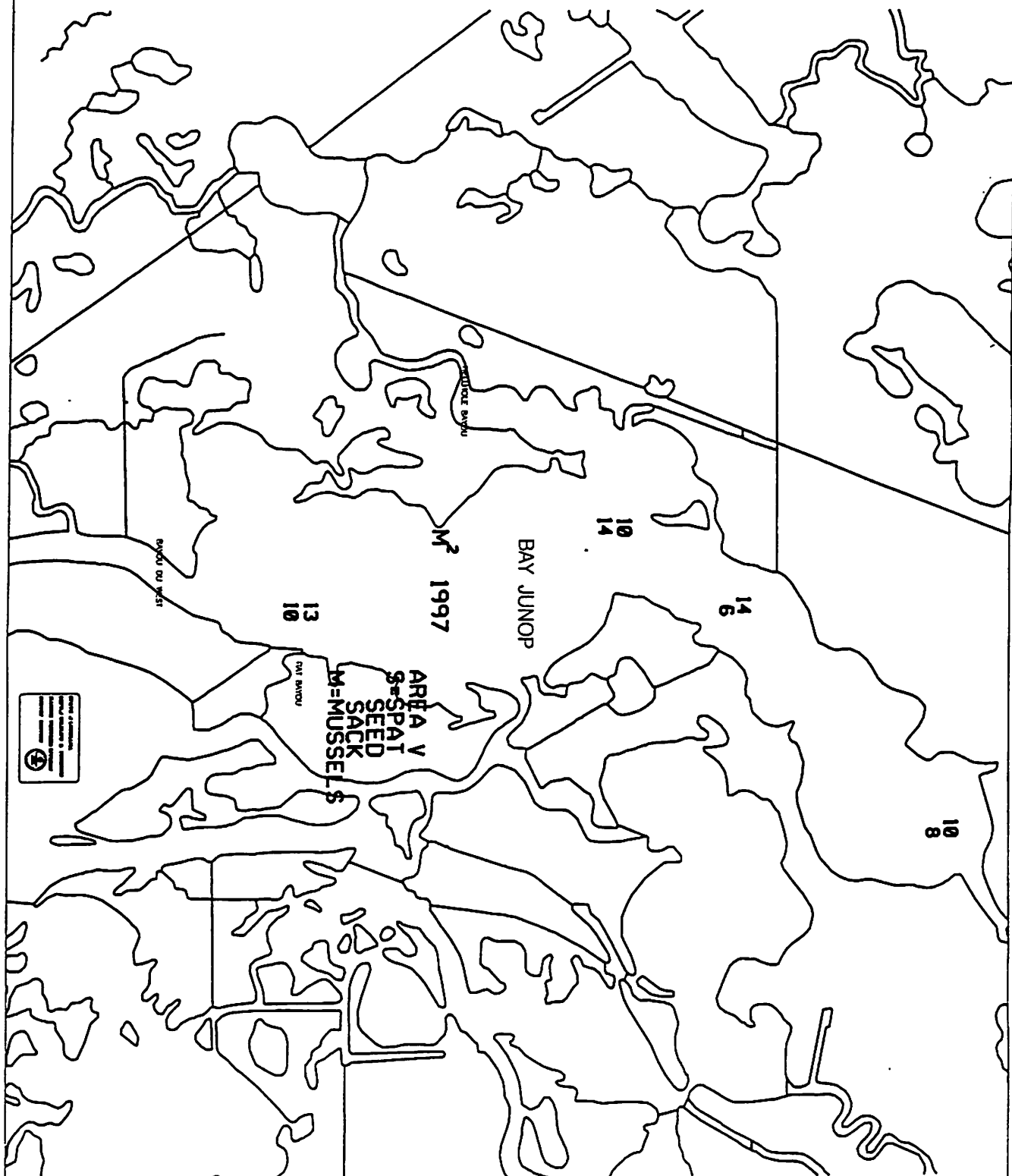


OYSTER AVAILABILITY

Barrels (thousands)

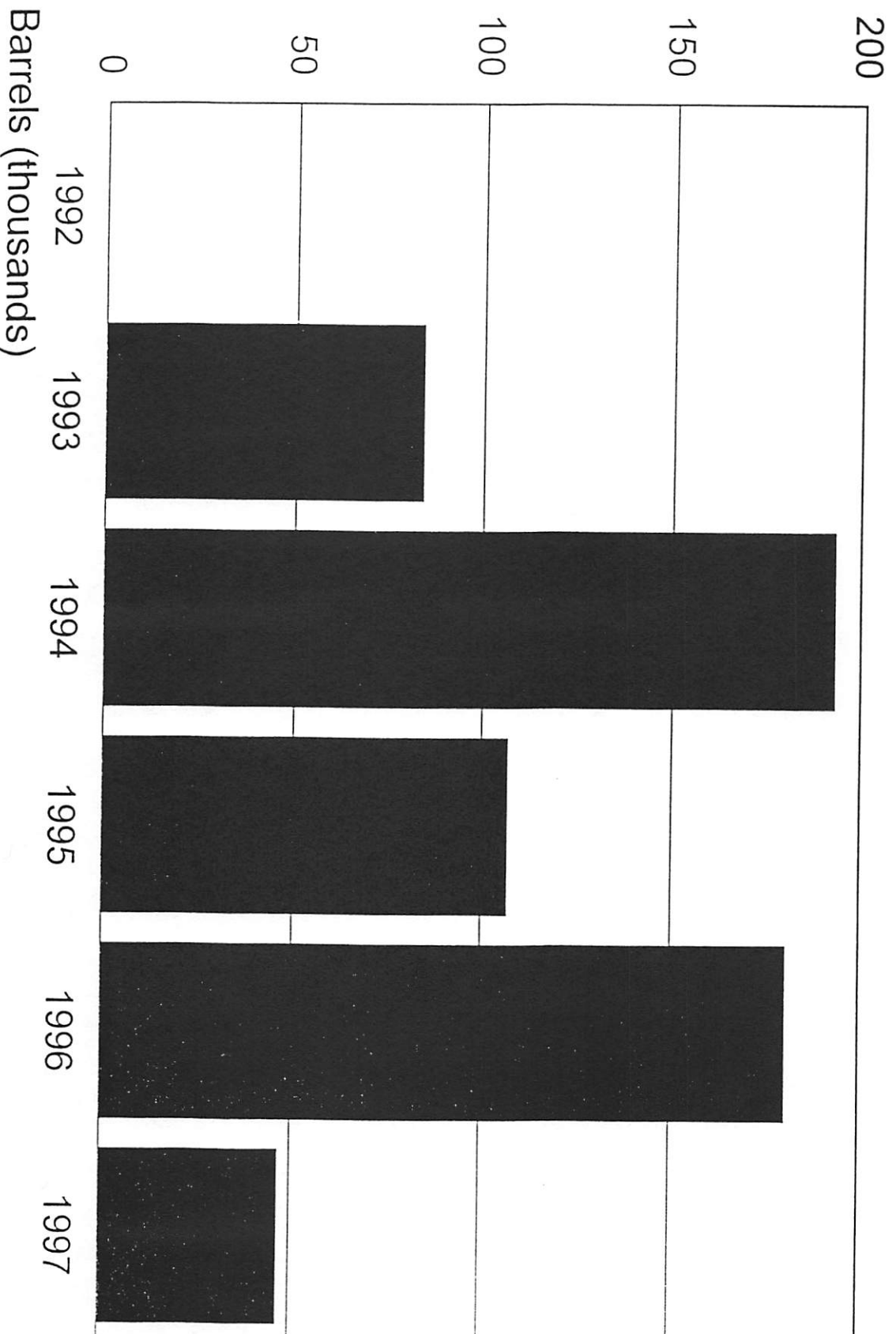
SISTER LAKE





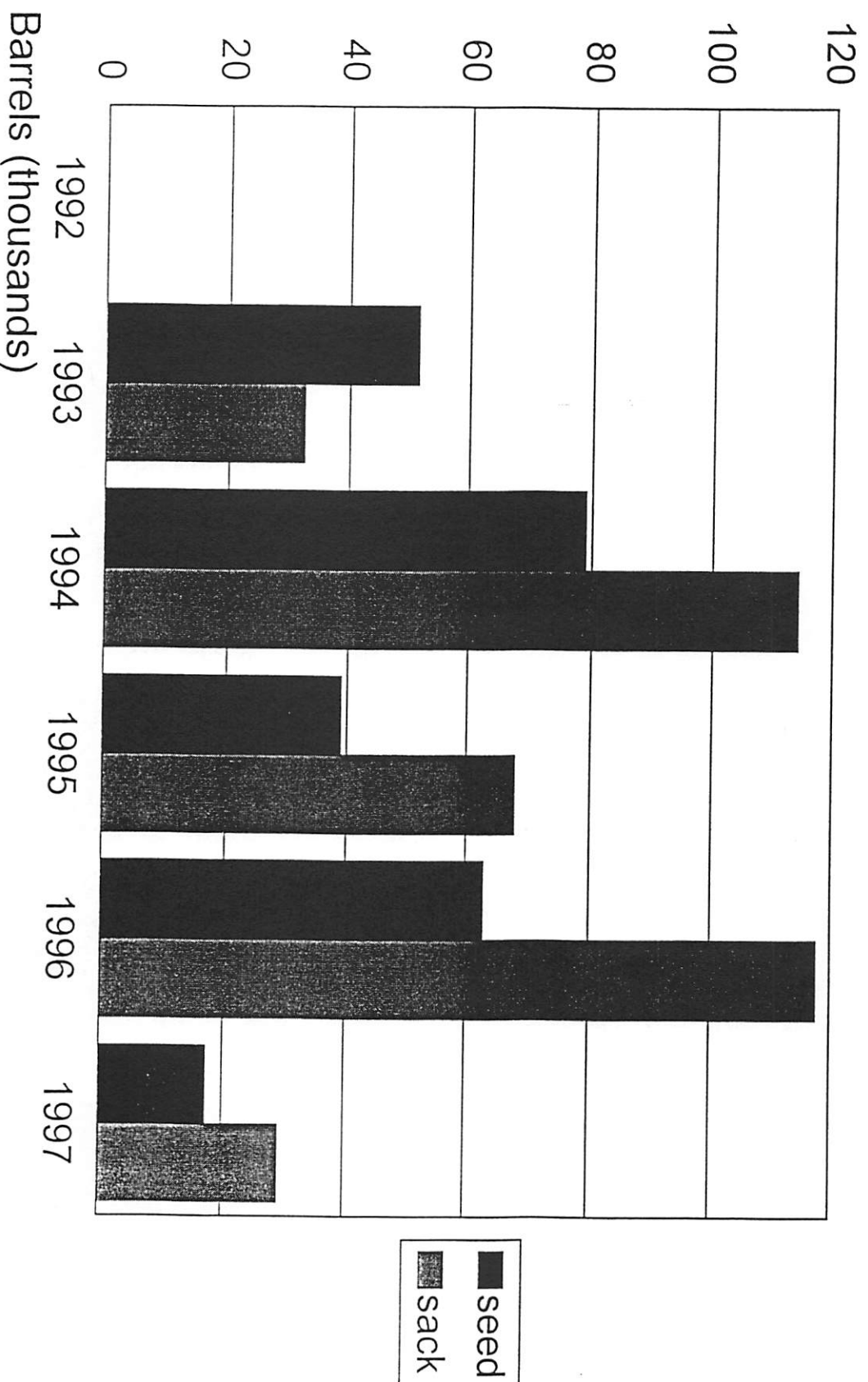
OYSTER AVAILABILITY

Bay Junop



OYSTER AVAILABILITY

Bay Junop



State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
Post Office Box 189
Bourg, LA 70343
(504)594-4139

M.J. "Mike" Foster
Governor

July 30, 1997

Memorandum:

TO: Ron Dugas, Programs Manager

FROM: Martin Bourgeois, CSA-V *ME 3493*

SUBJECT: Results of oyster dredge samples - North Sister Lake

Please be advised that 2' oyster dredge samples taken today in North Sister Lake (Grand Pass, North 1995 shell plant and Walker's Pt.) indicate very little mortality and compare favorably with dredge samples taken in May and June as well as with meter square samples taken in early July. Percent mortality measured in samples is as follows:

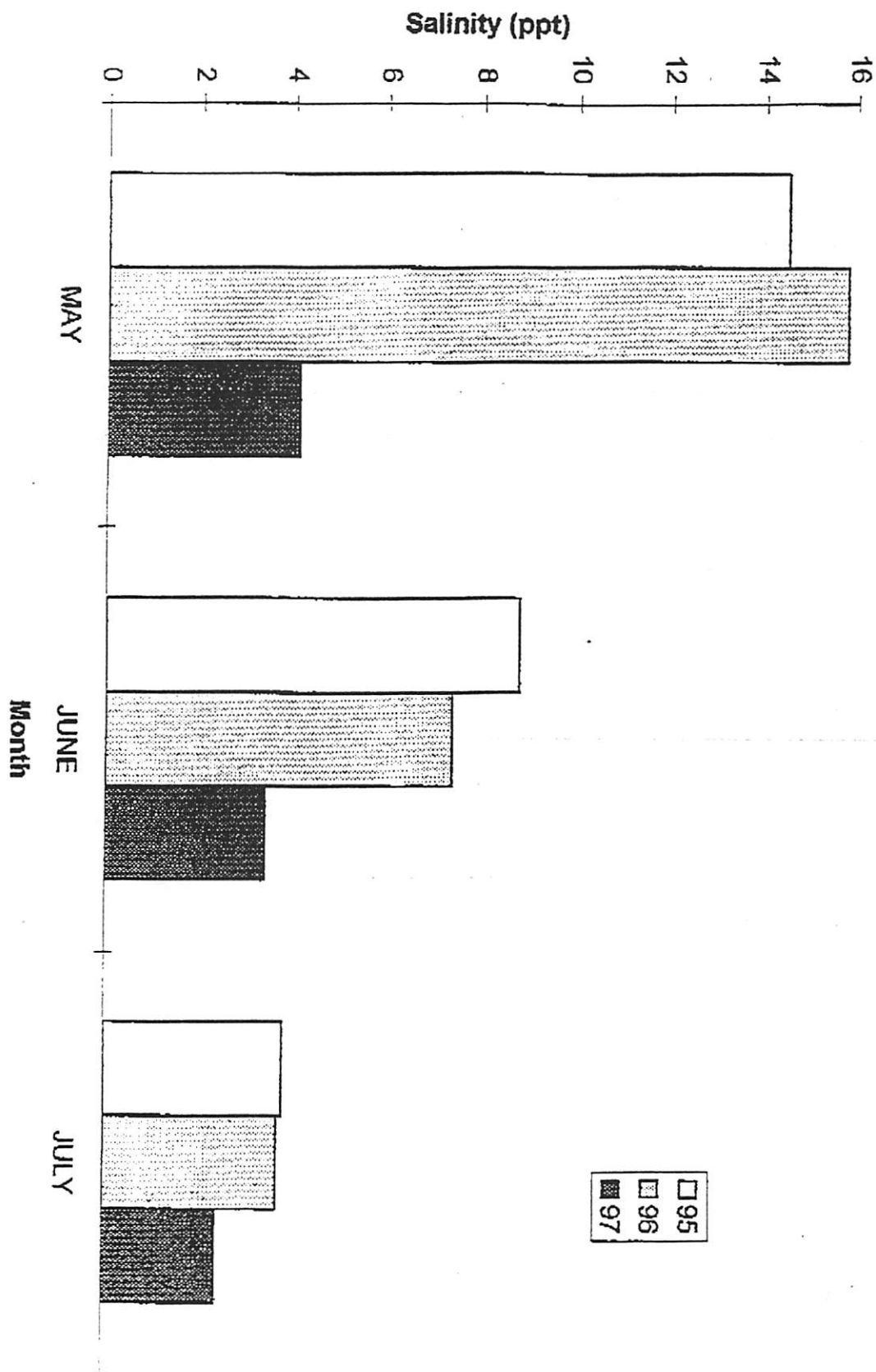
Grand Pass	8.3%
North 1995 shell plant	7.4%
Walker's Pt.	4.3%

Additionally, salinities at these three stations measured 6.2 ppt, 11.0 ppt and 14.6 ppt, respectively. Water temperatures remain within seasonal norms and no depressed oxygen concentrations were discovered.

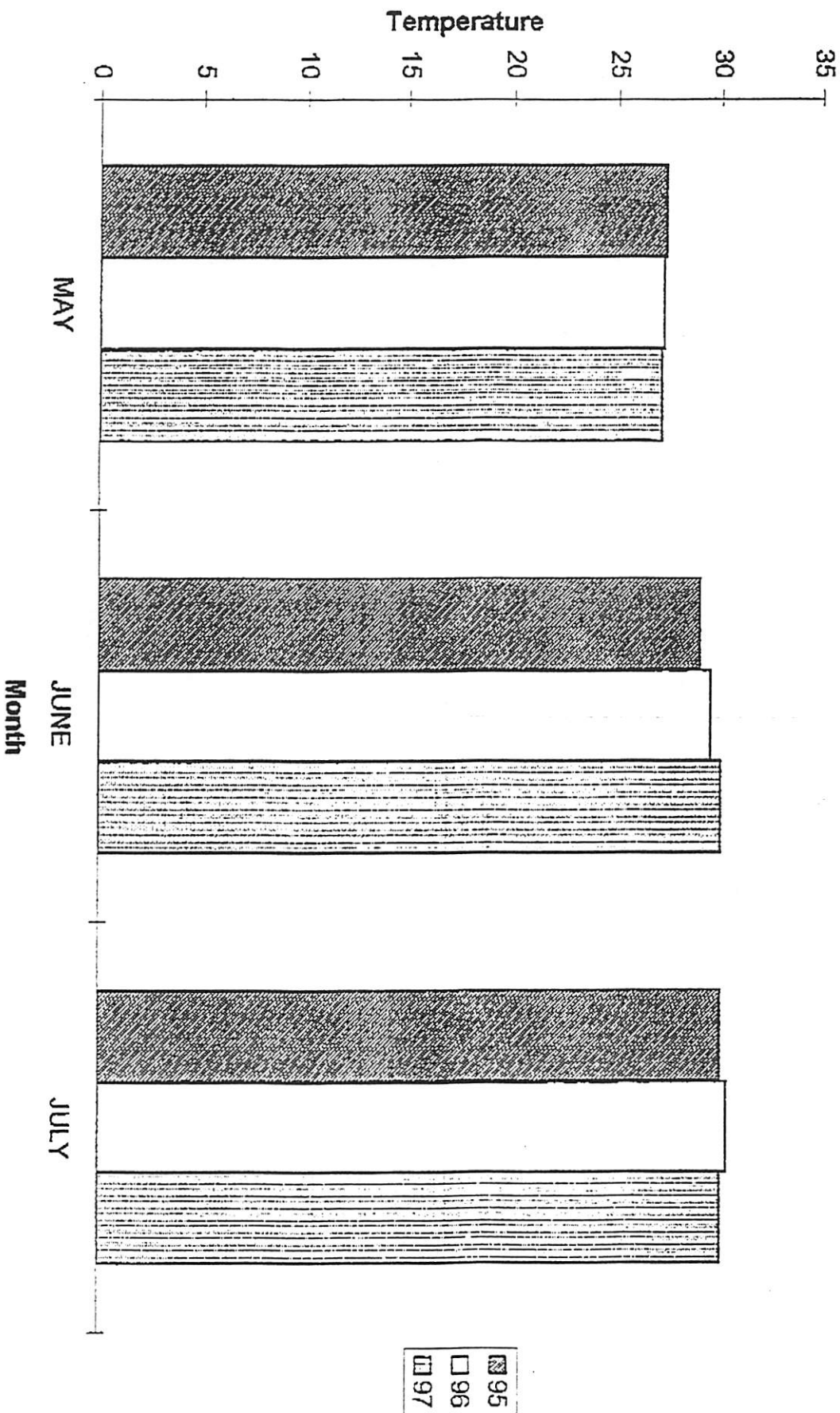
However, blue crab trap mortalities have become increasingly prevalent within the area recently with some reports of levels approaching 50%. These same reports also indicate that mortalities are not occurring every day but most likely are associated with heavy rains or cloudy days.

Please advise if you have any questions or require any additional information.

North Sister Lake Salinity



North Sister Lake Temperature



COASTAL STUDY AREA VII
DUDLEY CARVER

OYSTER PRODUCTION IN CALCASIEU LAKE AUGUST 1997

OYSTER NUMBERS

WESTSIDE					EASTSIDE				
SIZE	STATION			AVE.	SIZE	STATION			AVE.
	4	5	6			1	2	3	
> 3"	22	29	62	18.8	> 3"	88	59	31	29.7
1-3"	53	105	88	41.0	1-3"	128	54	51	38.8

OYSTER PRODUCTION AREA

WESTSIDE	EASTSIDE
2,942,076.67 SQ. METERS	3,901,185.57 SQ. METERS

PRODUCTION OF > 3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	55,311,041.396	OYSTERS:	115,865,211.429
SACKS:	307,283.6	SACKS:	643,695.6
TOTAL SACKS OF > 3" OYSTERS:		950,979.2	

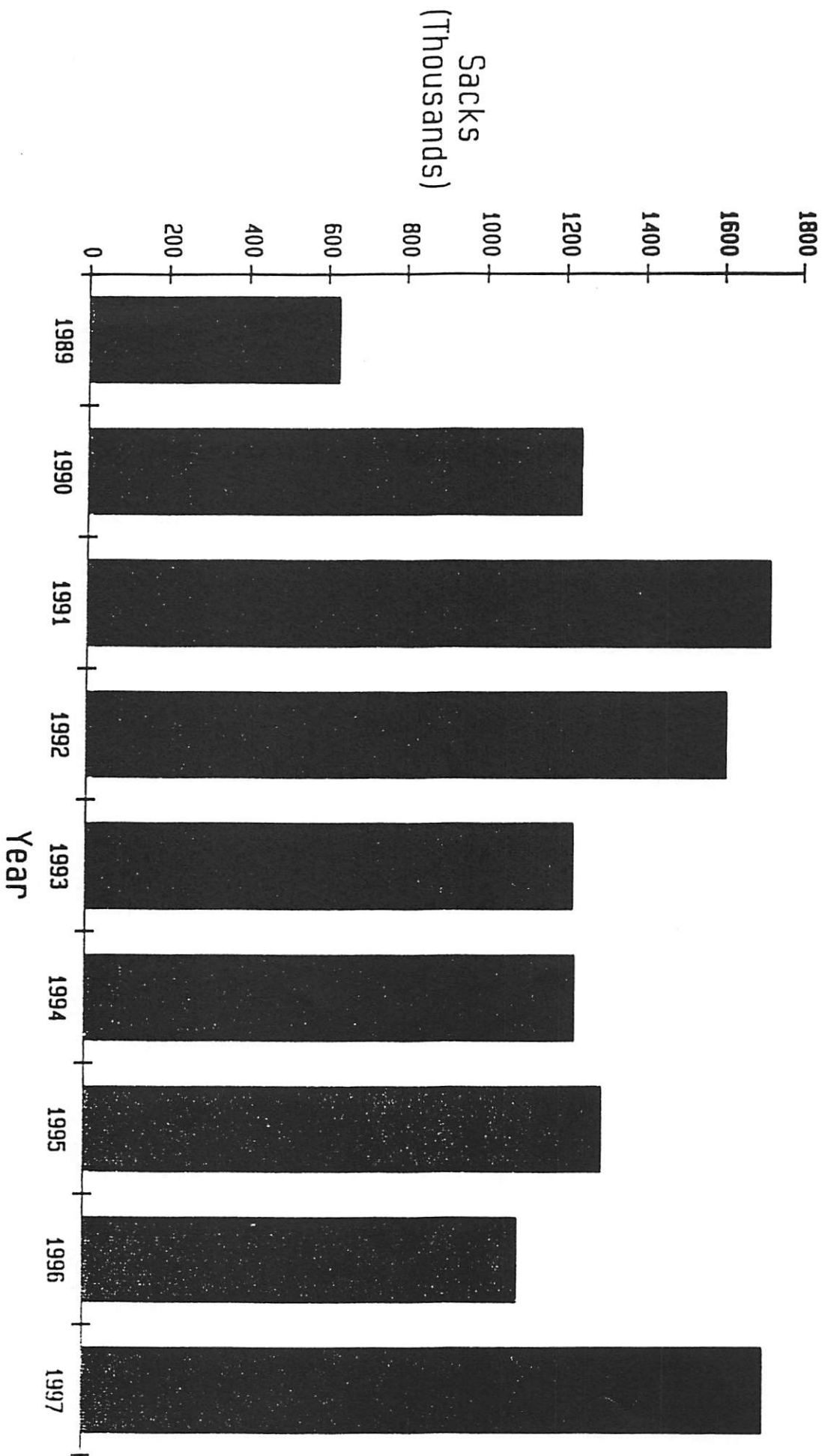
PRODUCTION OF 1-3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	120,625,143.470	OYSTERS:	151,366,000.116
SACKS:	335,069.8	SACKS:	420,461.1
TOTAL SACKS OF 1-3" OYSTERS:		755,530.9	

TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1,706,510.1
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OSTER AVAILABILITY - CALCASIEU LAKE



1997/98 OYSTER PRODUCTION

PUBLIC OYSTER GROUNDS

1997/98
OYSTER PRODUCTION PUBLIC OYSTER SEED GROUNDS
COASTAL STUDY AREA I
JOHN BURDON

Direct Commercial

		Sacks	Seed Barrels
1997	Sept.	43,200	8,000
	Oct.	24,840	4,200
	Nov.	18,300	4,200
	Dec.	39,000	1,300
1998	Jan.	13,050	None Known
	Feb.	14,100	600
	Mar.	<u>16,120</u>	<u>1,100</u>
Total		168,610	16,100

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
1600 Canal Street
New Orleans, LA 70112
(504)568-5667

M.J. "Mike" Foster
Governor

May 28, 1998

MEMORANDUM

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, Coastal Study Area II

SUBJECT: 97/98 Oyster Season in C.S.A. II

The 1997-98 oyster season opened on the public seed grounds in Coastal Study Area II at ½ hour before sunrise on Sept. 3, 1997. A "sacking only" area was declared in Lake Fortuna. Due to an abundant resource, Bay Gardene was open as in previous seasons.

At 10:40 a.m. on Sept. 3, no boats were observed in Bay Gardene. A total of 122 boats were observed fishing in grids: 45, 54, 55, 47, 48, 49, 40, 45, 63, 62, and 69 (see grid map). Most of the sack production was in grid 40 (sacking only area) where 1835 sacks were fished, while most of the barrel production, 1100, was in grid 46 on the 1994 Bay Crab shellplants.

Fishermen complained of many dead oysters in many areas, especially larger oysters. Prices varied from \$15 to \$17 per sack with an average of \$16. Yields were from 5 to 5-1/4 pts. Per sack from California Bay oysters.

There were no closures to interfere with the season. In fact, the only interference that the fishery experienced was interference in the operation of the Caenarvon Diversion Project resulting in the proliferation of Perkinsus and the loss of larger oysters (size is a function of age) in higher salinity marginal areas of former production. The more the flow of Caenarvon is cut back, the greater the loss of oyster resources on the public grounds in Black

Ron Dugas
May 28, 1998
Page 2

Bay, the greatest single source of oysters in the United States. We have too much unqualified help in managing the fishery resources of the State of Louisiana.

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
September, 1997	40*	33,275	0
	46	350	4,400
	47	210	0
	48	11,150	0
	49	3,230	0
	54	540	0
	55	3,185	15,225
	56	10,910	18,450
	57	1,260	1,400
	62	17,273	0
	63	18,843	2,100
	69	12,830	12,950
	30*	6,755	0
	29*	525	0
Total		120,336	54,525
* Sacking Only Area			

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
October, 1997	38	480	0
	40*	32,120	0
	46	150	12,600
	47	0	5,100
	48	2,670	0
	49	700	0
	55	5,870	3,350
	56	19,050	9,000
	62	9,910	0
	63	15,940	0
	69	10,670	0
Total		97,560	30,050
* Sacking Only Area			

Ron Dugas
May 28, 1998
Page 3

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
November, 1997	38	700	0
	40*	12,335	0
	46	0	6,600
	47	0	7,800
	48	1,830	0
	49	405	0
	54	360	0
	55	4,745	3,600
	56	16,848	2,100
	57	2,590	0
	62	12,360	0
	63	15,865	0
	69	15,060	2,100
Total		83,098	22,200
* Sacking Only Area			

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
December, 1997	40*	7,865	0
	46	0	3,000
	48	3,120	0
	49	3,850	0
	55	1,250	0
	56	11,180	6,000
	57	2,400	0
	62	4,990	0
	63	7,645	0
	69	7,260	0
Total		49,560	9,000
* Sacking Only Area			

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
January, 1998	46	450	0
	47	1,500	0
	48	2,930	0
	49	480	0
	55	1,080	0
	56	16,690	0
	57	2,840	0
	62	2,470	0

Ron Dugas
May 28, 1998
Page 4

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
Jan. '98 Cont.	63	5,250	0
	69	3,500	0
Total		37,190	0

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
February, 1998	40*	3,260	0
	47	6,650	23,500
	48	0	3,000
	49	3,600	0
	55	1,200	0
	56	6,950	2,500
	57	800	0
	62	10,100	0
	63	4,550	0
	69	2,600	0
	70	3,300,	0
Total		43,010	29,000
* Sacking Only Area			

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
March, 1998	40*	16,470	0
	47	2,430	32,400
	48	1,620	0
	49	810	0
	55	4,590	40,500
	56	4,185	0
	62	7,290	0
	63	3,645	0
Total		41,040	72,900
* Sacking Only Area			
Season Totals		471,794	217,675

453,572 bbls

Ron Dugas
May 28, 1998
Page 5

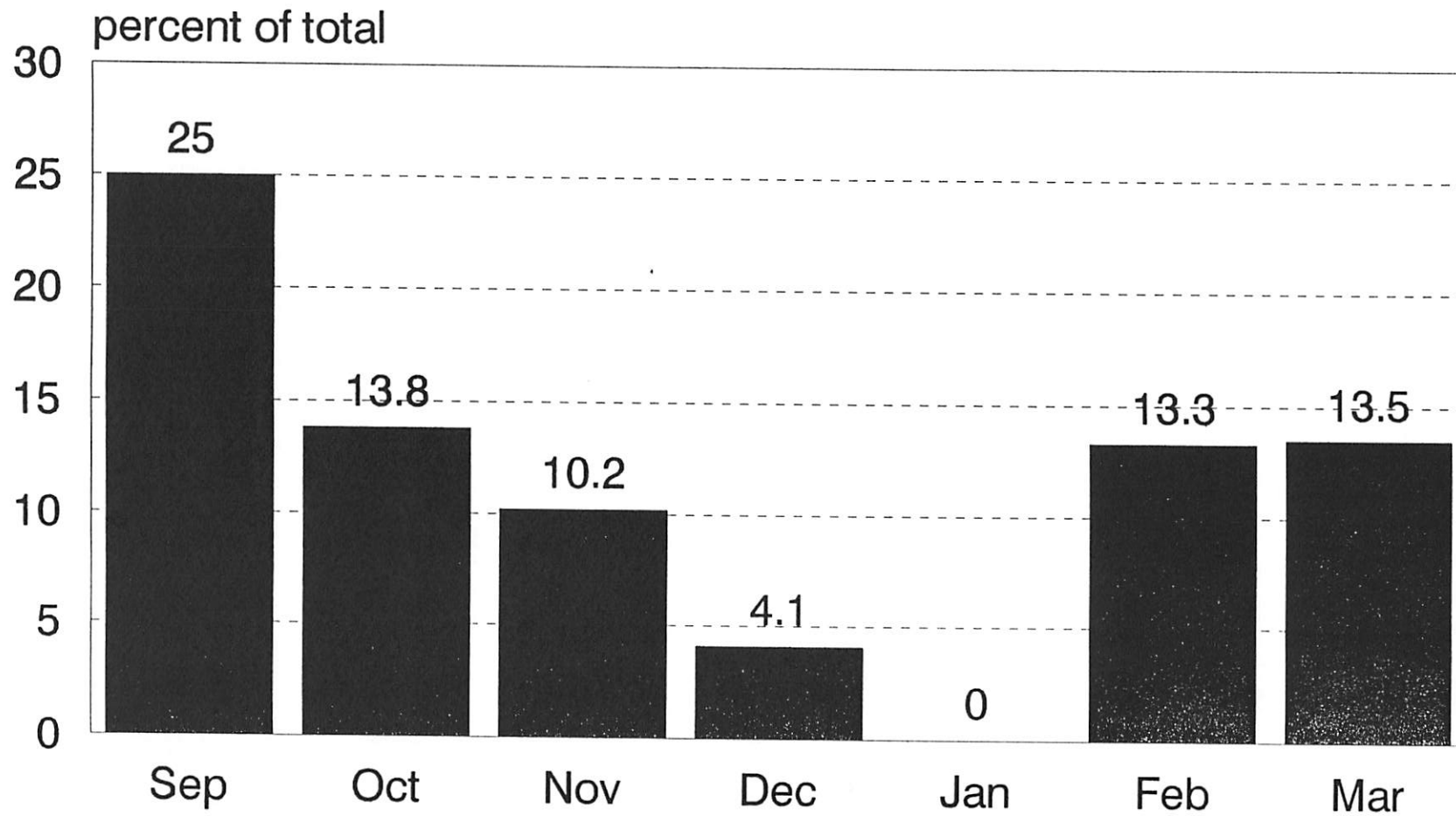
Total production for the 1997-98 season was up from the 1996-97 season: 471,794 sacks and 217,675 barrels for 1997-98 as opposed to 384,044 sacks and 162,020 barrels for 1996-97.

Most of our sack production was in September from the "sacking only" area (grid 40), while our seed production was in September and March from grids: 47, 55, and 56 (north, south and east of Stone Island).

RLA:ymw
Bob/98oys.opn

SEED PRODUCTION

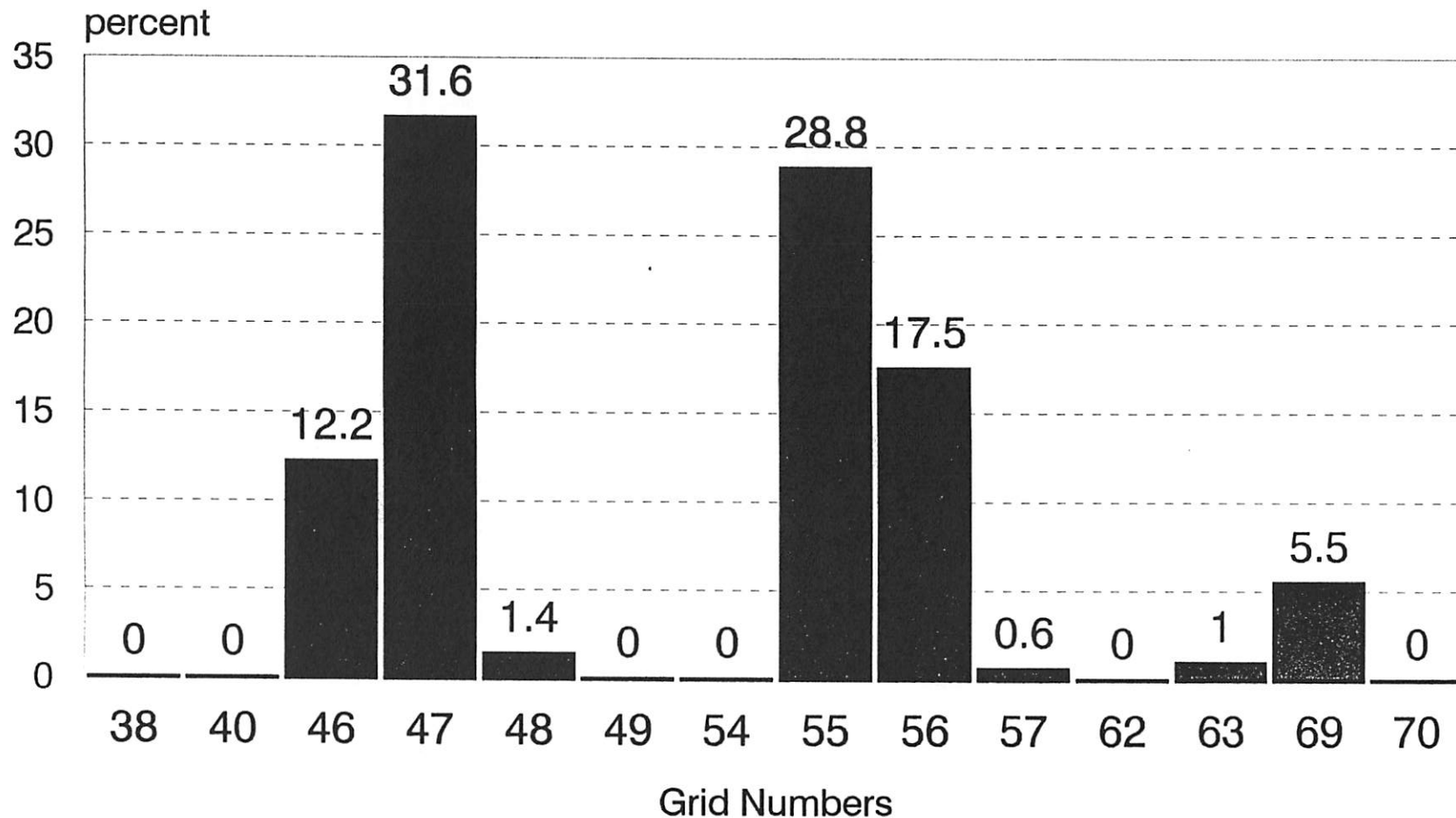
Breton Sound Basin Public Grounds



97/98 Season

SEED OYSTER PRODUCTION

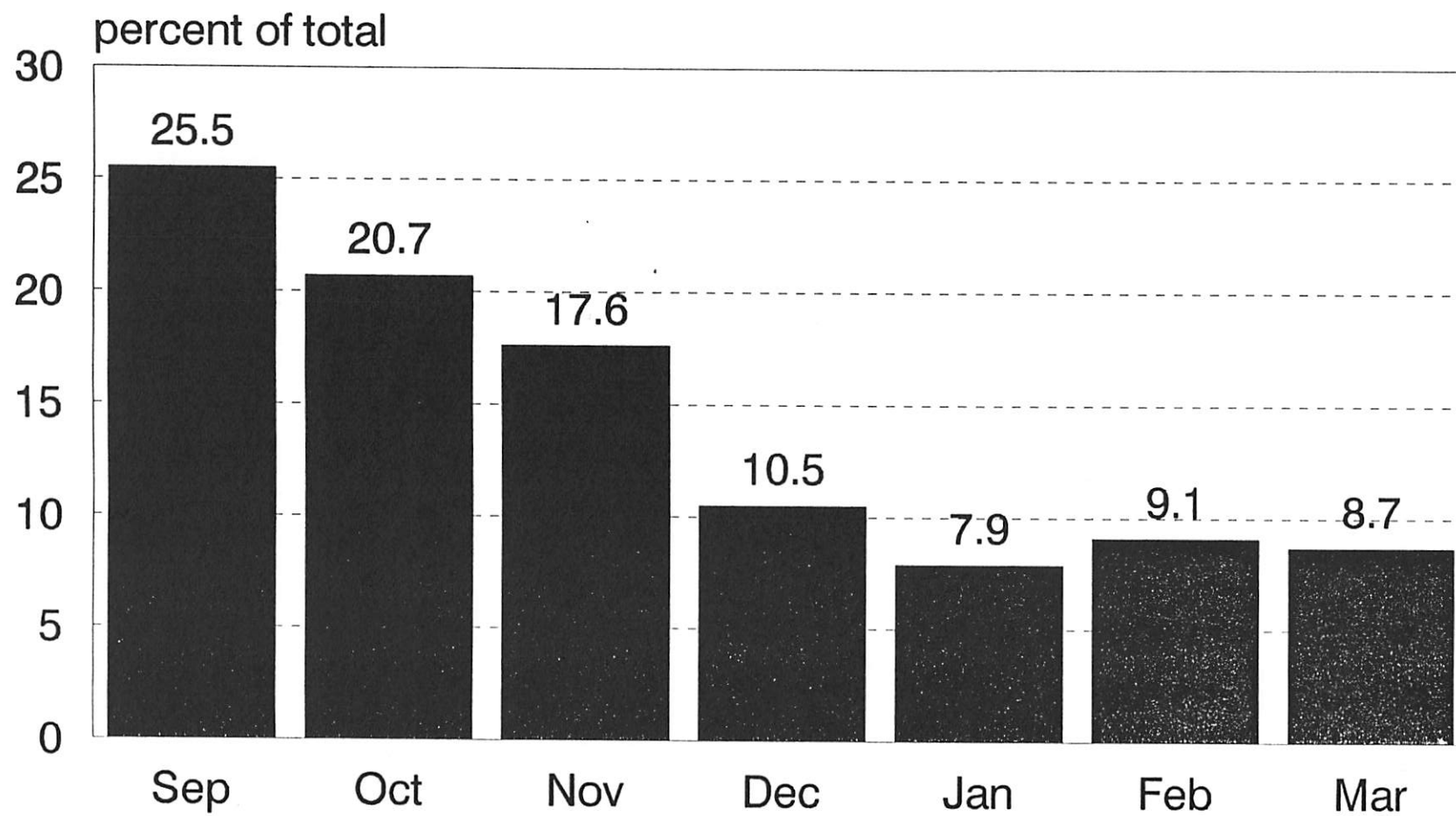
Breton Sound Basin Public Grounds



97/98 season

SACK PRODUCTION

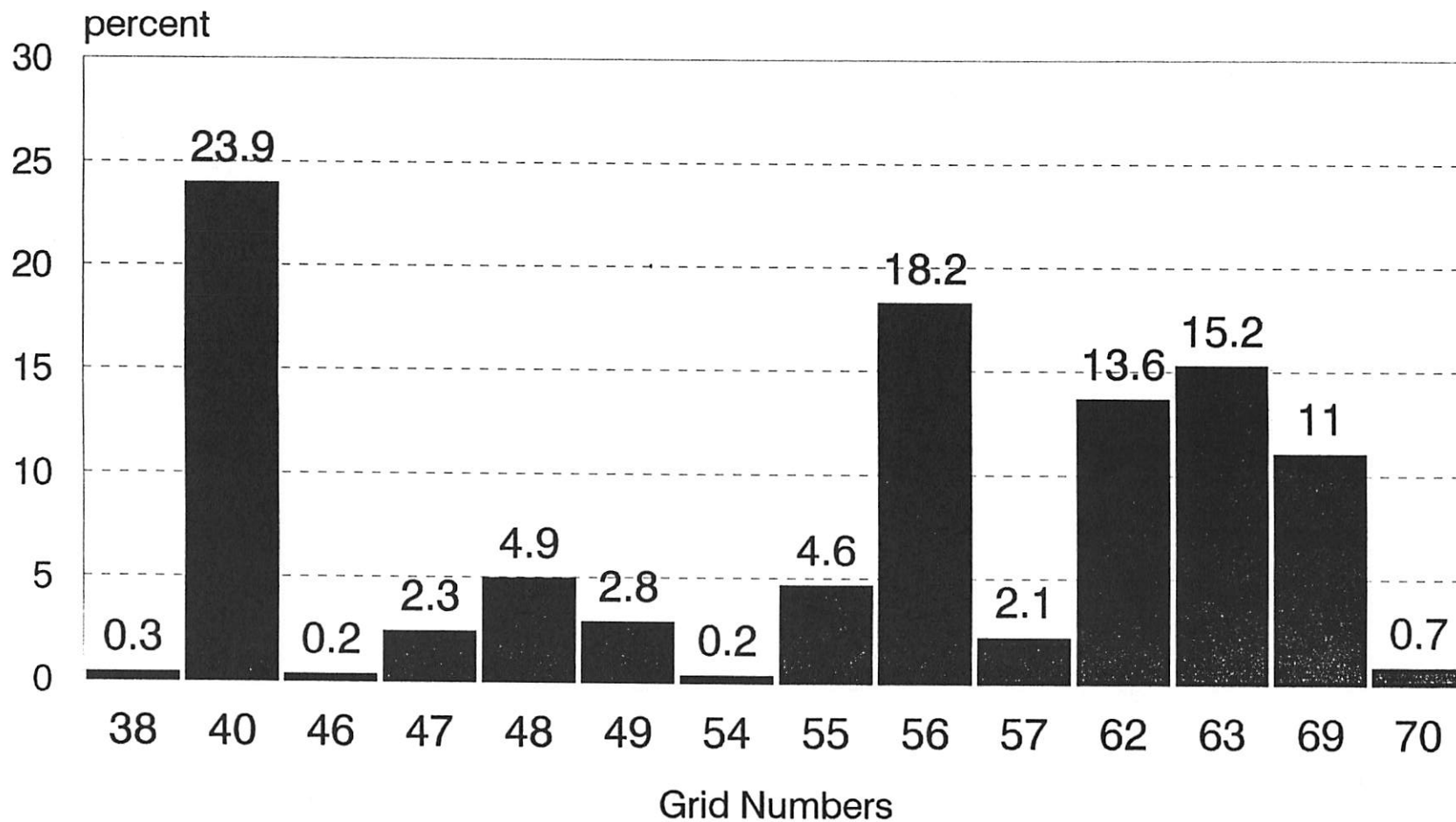
Breton Sound Basin Public Grounds



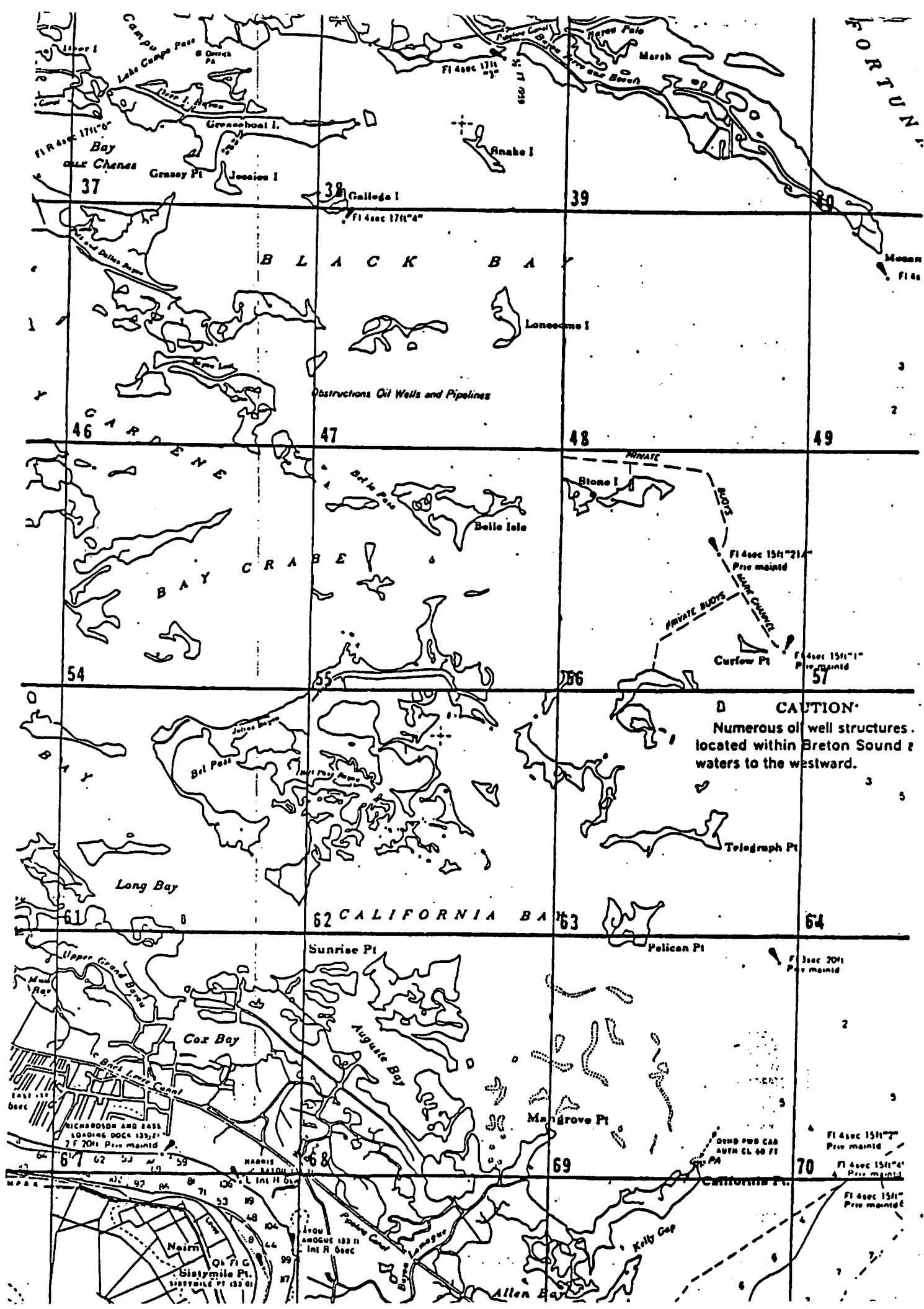
97/98 Season

SACK OYSTER PRODUCTION

Breton Sound Basin Public Grounds



97/98 season



COASTAL STUDY AREA III - HACKBERRY BAY

By: Randy Pausina

The following is the amount of total oyster harvest from the Hackberry Bay Oyster Seed Reservation for the 97/98 oyster: apx. 10,000 sacks total harvest with 5,500 sacks coming from the shell plant area.

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife & Fisheries
Post Office Box 189
Bourg, LA 70343
(504)594-4139

M.J. "Mike" Foster, Jr.
Governor

April 15, 1998

Memorandum

TO: Ron Dugas, Programs Manager

FROM: Martin Bourgeois and Paul Meier, CSA-V. *MB 3493*

SUBJECT: Annual Report - 1997-98 Sister Lake Oyster Seed Reservation Season

The 1997-98 Sister Lake Oyster Seed Reservation Season was opened to both sack and seed oyster harvest at one-half hour before sunrise Wednesday, September 3, 1997 and closed one-half hour after sunset April 1, 1998. Total documented sack and seed production measured 87,454 sacks and 31,668 barrels, respectively, for a combined value of 75,395 barrels (Figure 1) making this season the fifth highest production season since 1960.

Combined sack and seed production from the 1994 and 1995 shell plants was 23,405 barrels and 14,420 barrels (Figure 2) contributing 31% and 19%, respectively, to total production. Shell plant, as well as Sister Lake production totals, however, were influenced by two seasonal public health closures of portions of Sister Lake (Figures 3 and 4).

Fishing effort during the season, measured in number of boat days, surpassed any previously recorded and totaled 2,341 boat days (Figure 1). A total of 110 different vessels were observed and identified as fishing in Sister Lake. Most effort during the early part of the season was concentrated in the area between Sister Lake Camp, Walker's Pt. and Grand Pass. Effort subsequently shifted to Lower Sister Lake in conjunction with the November 1, seasonal public health closure which placed the majority of shell plant acreage within closed areas. The March 1, closure further restricted fishing effort, however, overall effort decreased only 20% from the previous month.

Seed oyster production was highest in September, declined in October and essentially ended following November (Figure 5). Shell plants accounted for the largest volume of seed oysters harvested (19,655 barrels), comprising 62% of total seed production. Likewise, sack oyster

production peaked in September, declined through December, increased slightly in January and declined again (Figure 5). Similarly, production of sack oysters from shell plants peaked in September, comprising 53% of total sack production and declined significantly thereafter. Boats averaged 58 sacks/day on opening day, declined to 39 sacks/day by the end of September and generally averaged 30-40 sacks/day until the season ended. Production as well as fishing effort documented from the 1994 and 1995 shell plants has exceeded that of recent years (Figures 6 and 7) and has likely matured during this past season.

On September 8, 1998, the U.S. Immigration and Naturalization Service along with the Terrebonne Parish Sheriff's Office boarded oyster boats working in Sister Lake and arrested and detained over 30 illegal aliens working as operators and deck hands. Consequently, a number of boats were unable to work for a while and other boats were restricted due to the unavailability of deck hands. A total of nine Texas boats worked in Sister Lake during September and October. Several of the Texas captains were cited by agents of the Oyster Strike Force for operating under resident licenses with no licensed resident onboard. Additionally, agents of the Oyster Strike Force have communicated that citations for possession of under-size oysters both in Sister Lake and east of the Mississippi River were more prevalent this year than in years past. Complaints from fishermen indicating small oyster sizes along with unverifiable reports of large amounts of hooked mussels fouling oysters from Mile Pass in Sister Lake were received.

Wholesale dockside prices for Sister Lake oysters ranged as follows:

09/03/97	\$10-\$13/sack
09/11/97	\$13/sack
09/23/97	\$13/sack
09/29/97	\$12/sack
10/09/97	\$12/sack
10/20/97	\$14/sack
11/05/97	\$15/sack
11/14/97	\$11-\$18/sack
11/24/97	\$14/sack
12/01/98	\$14/sack
02/12/98	\$14/sack
03/11/98	\$13/sack

Yields from sack oysters averaged 4 pts in early September, increased to 4-5 pts by late September but never "fattened" resulting in generally poor yields throughout the season.

cc: Claude Boudreaux

Figure 1. Annual Production and Fishing Effort, Sister Lake

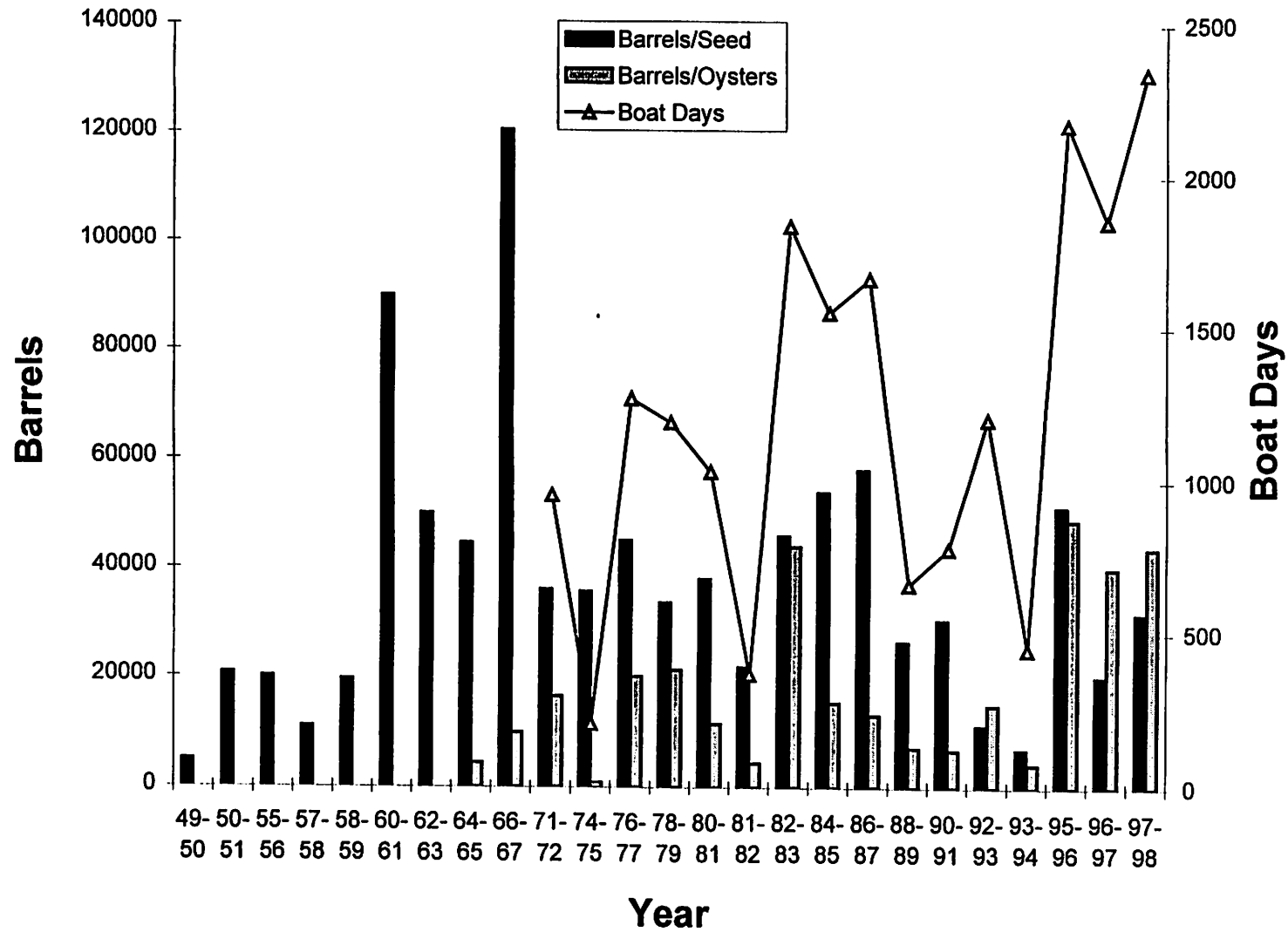


Figure 2. 1997-98 Monthly Production and Fishing Effort, 1994 and 1995 Shell Plants

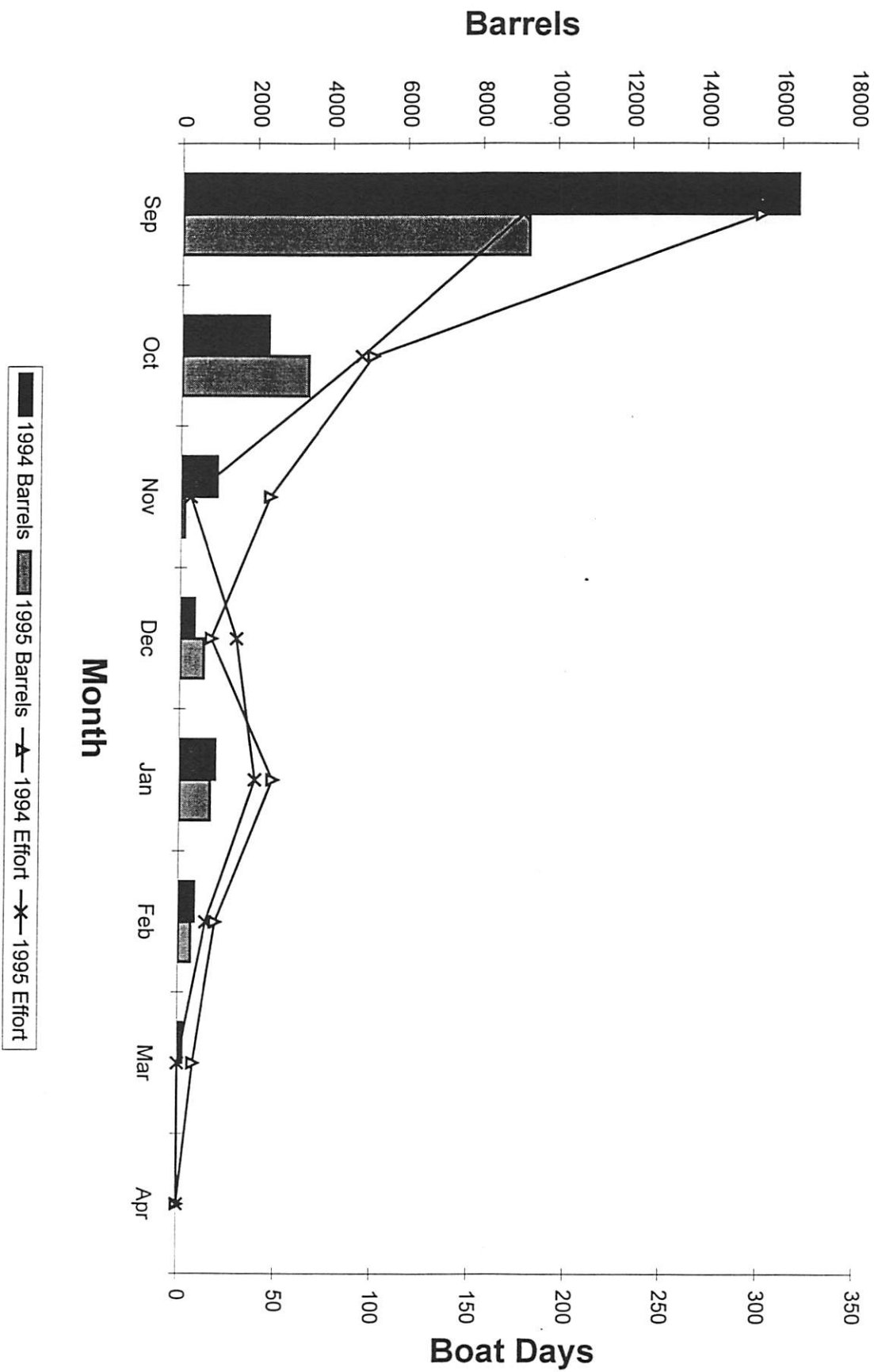


Figure 3. Sister Lake Closure
November 1, 1997 - February 28, 1998

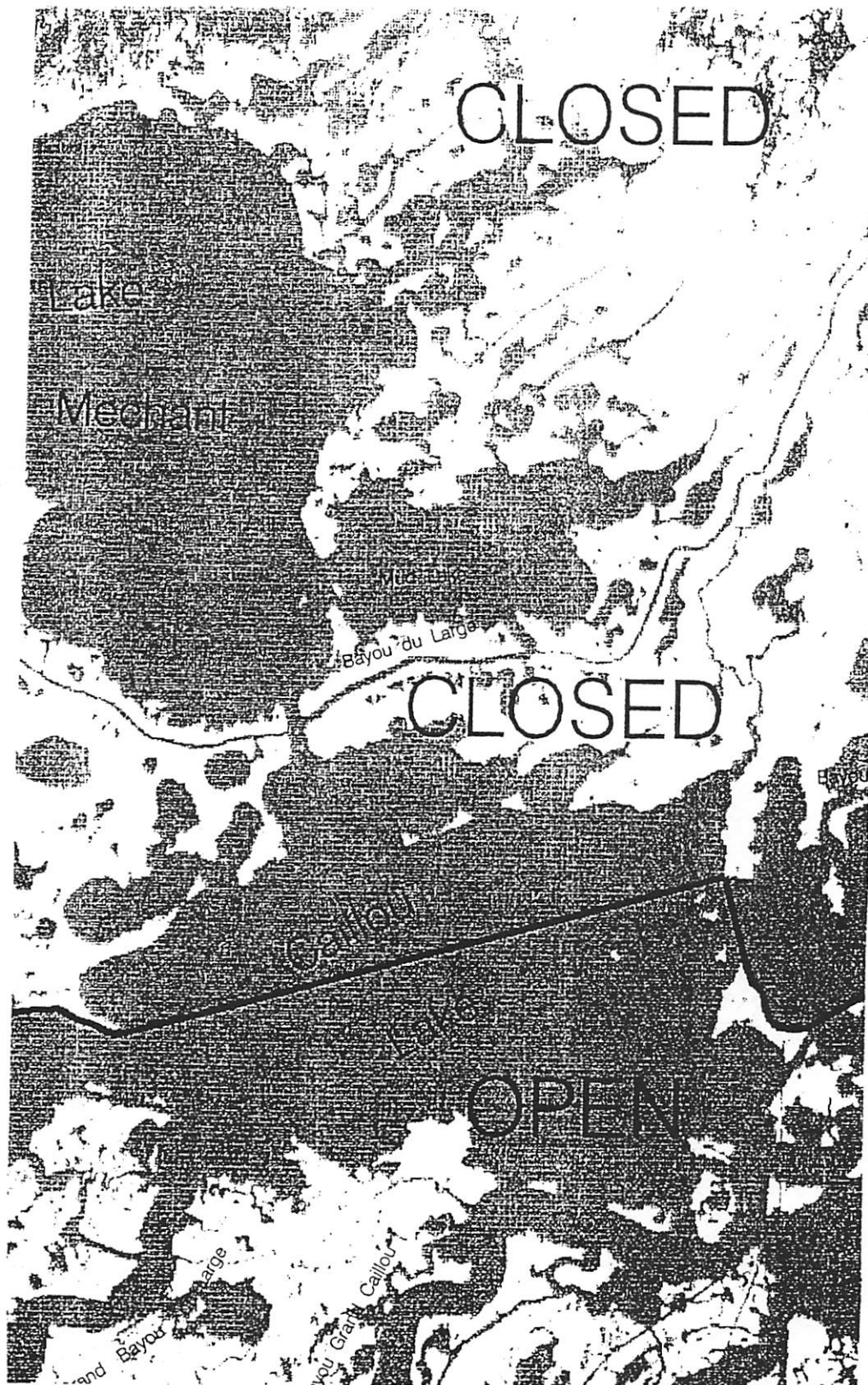


Figure 4. Sister Lake Closure
March 1, 1998 - April 30, 1998

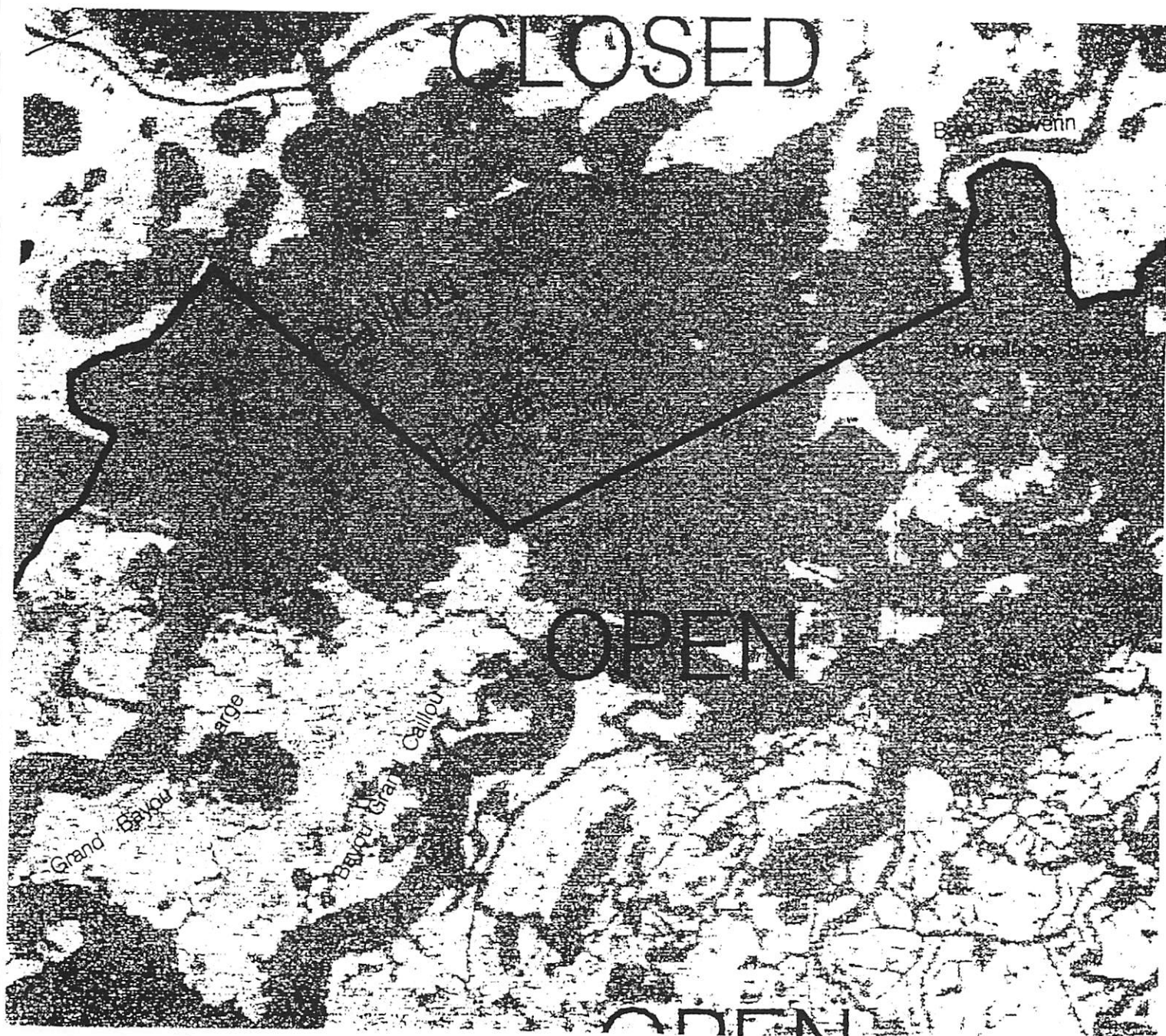


Figure 5. Monthly Sister Lake Production, 1997-98

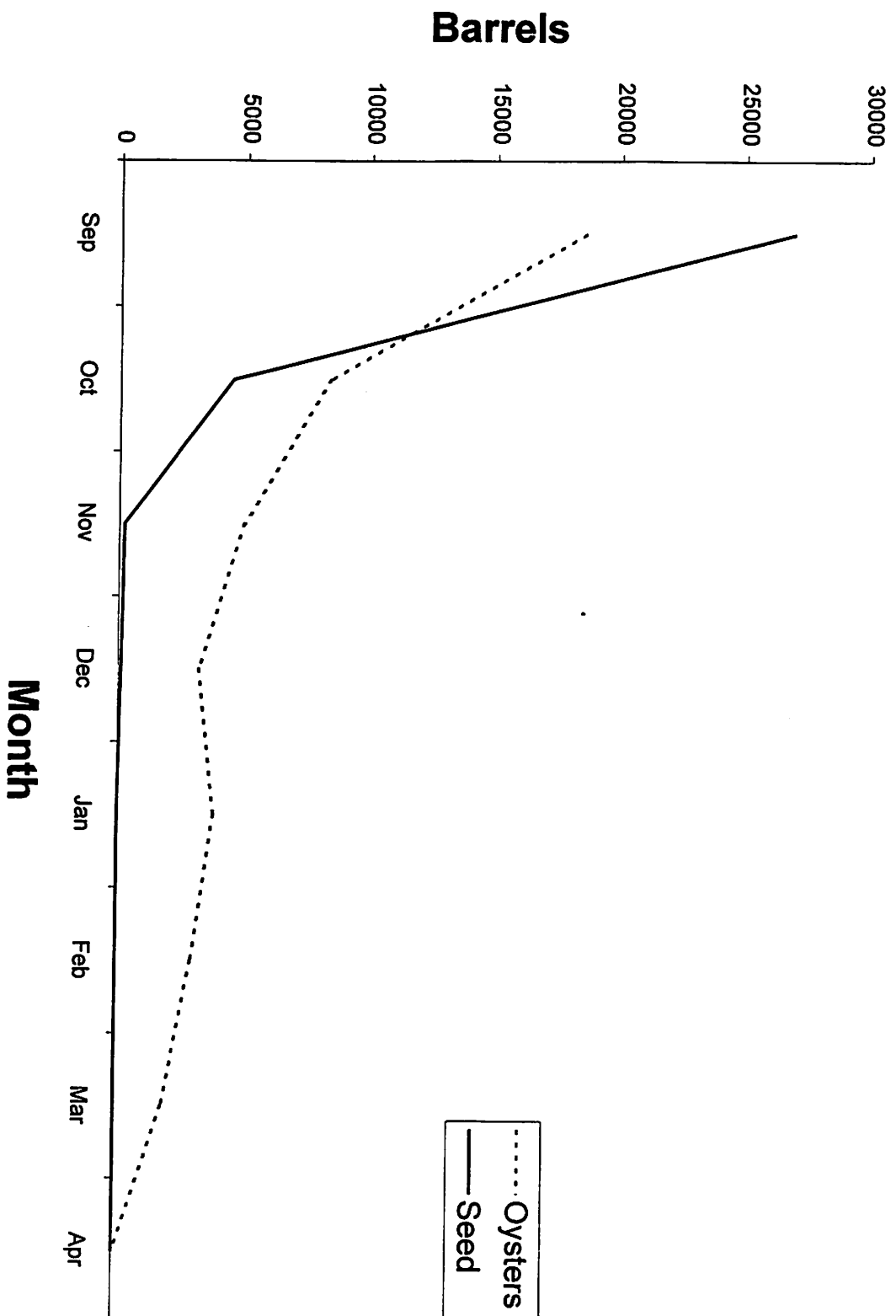


Figure 6. Annual Production and Fishing Effort, 1994 Shell Plants

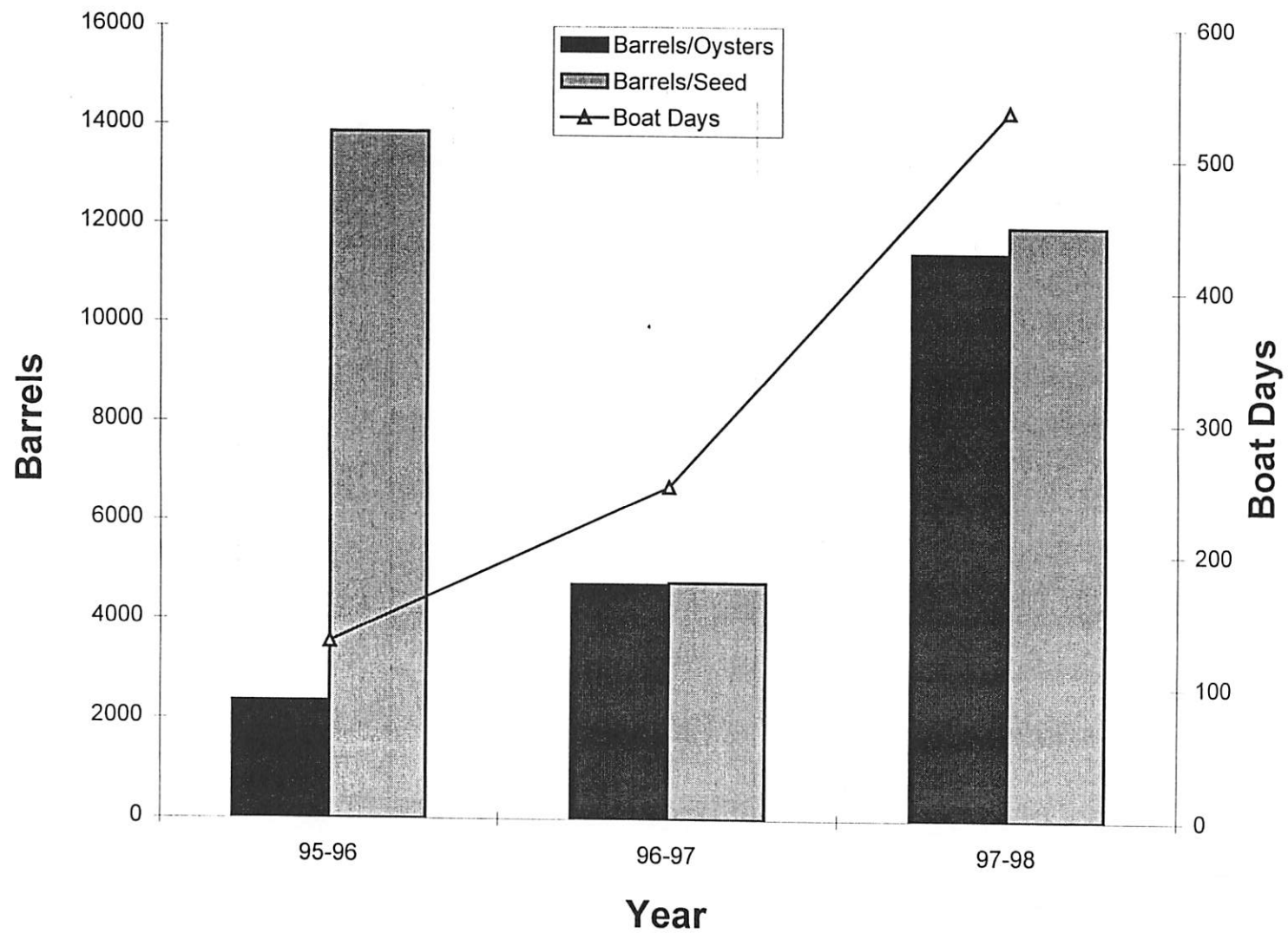
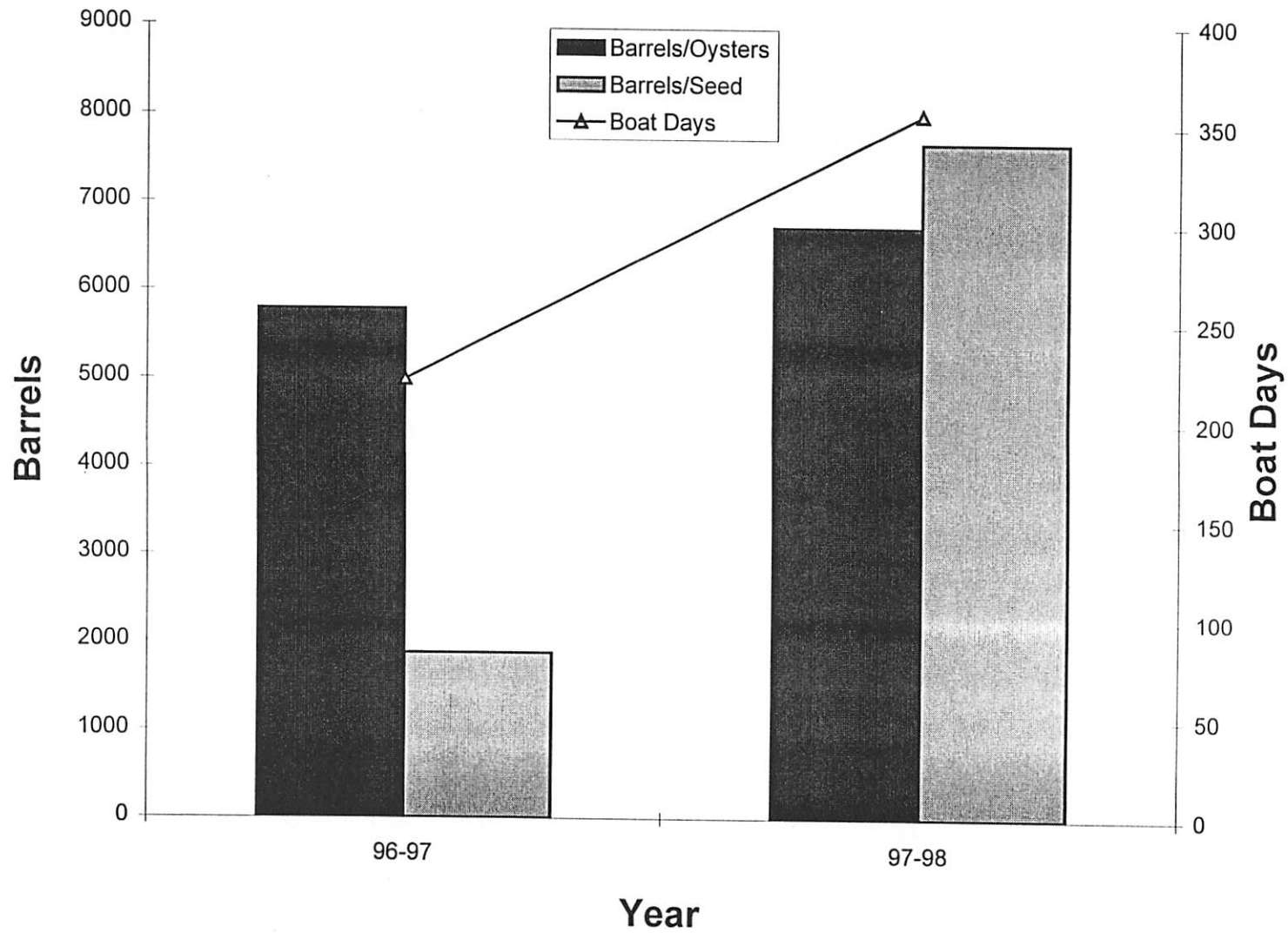


Figure 7. Annual Production and Fishing Effort, 1995 Shell Plants



1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON									
Month	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
September	13,018	9,920	300	6,485	5,985	176	37,000	26,903	951
October	4,391	1,950	99	3,323	1,700	93	16,784	4,465	460
November	1,902	0	46	192	0	5	9,902	200	282
December	549	100	16	1,152	0	29	6,357	100	181
January	1,907	0	48	1,653	0	39	7,637	0	195
February	845	0	19	665	0	14	5,979	0	152
March	259	0	8	0	0	0	3754	0	118
April	0	0	0	0	0	0	41	0	2
Totals	22,871	11,970	536	13,470	7,685	356	87,454	31,668	2,341

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - SEPTEMBER

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
01									
02									
03	275	2,775	19	780	80	13	3,288	3,715	76
04	960	930	23	825	200	16	3,047	1,570	69
05	480	900	13	423	260	10	1,517	1,360	39
06	512	450	10	373	260	10	1,437	910	33
07	175	350	4	382	0	8	1,050	350	23
08	565	950	15	465	260	13	2,199	1,493	58
09	1,265	575	23	61	300	3	1,874	2,185	46
10	1,291	75	22	98	300	4	2,252	1,585	51
11	1,265	450	24	110	225	4	2,431	2,025	56
12	624	0	13	364	275	9	1,157	725	28
13	226	300	5	168	0	3	608	300	13
14	127	0	2	106	0	2	313	150	7
15	700	375	18	295	650	10	1,422	1,025	38
16	326	500	8	203	350	8	1,375	1,270	41
17	216	530	6	290	375	10	1,532	1,310	45
18	290	500	9	300	300	10	1,735	1,345	52
19	351	100	7	223	150	7	951	450	23
20	372	80	8	116	250	4	727	330	17
21	136	0	3	116	0	3	329	0	8
22	525	80	12	165	700	10	1,540	800	44
23	580	0	14	250	0	6	1,639	1,500	50
24	457	0	10	85	300	3	988	770	28
25	349	0	7	0	300	1	793	370	21
26	166	0	6	40	200	2	702	270	21
27	219	0	5	95	0	2	562	70	13
28	-	-	0	50	0	1	138	70	4
29	225	0	7	45	250	2	616	535	25
30	341	0	7	57	0	2	778	420	22
31									
Totals	13,018	9,920	300	6,485	5,985	176	37,000	26,903	951

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - OCTOBER

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.	
01	445	0	10	165	0	5	1,230	415	34	
02	605	0	13	115	0	3	1,174	400	29	
03	592	0	14	120	0	3	1,212	0	31	
04	226	0	4	123	100	4	542	100	14	
05	186	0	3	40	100	2	395	100	11	
06	365	150	9	185	100	2	914	250	29	
07	149	0	3	170	150	7	633	150	20	
08	278	0	6	140	250	5	638	250	20	
09	340	0	7	330	250	10	1,107	250	31	
10	170	0	2	59	0	3	488	0	13	
11	40	300	2	35	0	1	159	300	7	
12	111	0	2	93	0	1	420	0	8	
13	0	300	1	48	0	1	268	300	10	
14	0	300	1	87	0	3	246	300	7	
15	40	300	2	44	0	1	388	300	12	
16	40	300	2	62	0	2	545	300	16	
17	40	300	2	145	0	4	705	300	20	
18	44	0	1	35	300	2	357	300	10	
19	0	0	0	62	0	1	110	0	2	
20	85	0	3	40	300	2	456	300	15	
21	55	0	1	255	150	7	795	150	22	
22	63	0	1	45	0	1	423	0	10	
23	72	0	1	96	0	2	491	0	12	
24	39	0	1	95	0	2	355	0	8	
25	72	0	1	75	0	2	369	0	9	
26	30	0	1	30	0	1	171	0	6	
27	0	0	0	100	0	2	289	0	7	
28	30	0	1	250	0	4	670	0	17	
29	103	0	2	92	0	2	445	0	10	
30	66	0	1	92	0	2	344	0	9	
31	105	0	2	95	0	2	445	0	11	
Totals	4,391	1,950	99	3,323	1,700	93	16,784	4,465	460	

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - NOVEMBER

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
01	-	-	0	-	-	0	125	0	3
02	-	-	0	-	-	0	32	0	1
03	-	-	0	-	-	0	153	0	5
04	48	0	1	-	-	0	297	0	8
05	120	0	3	-	-	0	510	50	14
06	77	0	2	-	-	0	361	0	10
07	93	0	2	-	-	0	228	0	7
08	40	0	1	-	-	0	378	0	11
09	67	0	1	-	-	0	132	0	3
10	58	0	2	-	-	0	406	0	11
11	208	0	4	-	-	0	515	0	13
12	-	-	0	-	-	0	261	0	8
13	139	0	3	-	-	0	534	0	15
14	135	0	4	-	-	0	645	150	21
15	45	0	1	-	-	0	205	0	5
16	-	-	0	-	-	0	30	0	1
17	146	0	5	-	-	0	288	0	11
18	60	0	1	-	-	0	381	0	12
19	250	0	6	-	-	0	795	0	24
20	81	0	2	-	-	0	453	0	11
21	52	0	1	40	0	1	559	0	16
22	45	0	1	-	-	0	176	0	6
23	18	0	1	-	-	0	243	0	8
24	80	0	2	50	0	1	727	0	20
25	40	0	1	-	-	0	281	0	8
26	-	-	0	-	-	0	150	0	5
27	-	-	0	-	-	0	52	0	1
28	60	0	1	69	0	2	433	0	10
29	40	0	1	33	0	1	354	0	9
30	-	-	0	-	-	0	198	0	5
Totals	1,902	0	46	192	0	5	9,902	200	282

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - DECEMBER

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
01	60	0	1	95	0	3	600	0	18
02	-	-	0	99	0	3	235	0	8
03	-	-	0	110	0	3	310	0	9
04	-	-	0	-	-	0	537	0	11
05	-	-	0	57	0	1	278	0	7
06	-	-	0	-	-	0	142	0	3
07	-	-	0	-	-	0	63	0	1
08	45	0	1	53	0	1	232	0	5
09	-	-	0	-	-	0	130	0	4
10	35	0	1	46	0	1	425	0	12
11	15	0	1	-	-	0	70	0	3
012	-	-	0	-	-	0	-	-	0
13	-	-	0	-	-	0	-	-	0
14	-	-	0	-	-	0	6	0	1
15	6	0	1	28	0	1	165	0	6
16	25	0	1	20	0	1	535	0	20
17	-	-	0	20	0	1	74	0	3
18	64	0	1	46	0	1	204	0	5
19	-	-	0	54	0	1	141	0	4
20	73	0	2	55	0	1	383	0	11
21	-	-	0	-	-	0	96	0	3
22	77	100	3	60	-	1	494	100	15
23	-	-	0	56	0	1	160	0	3
24	25	-	1	-	-	0	25	0	1
25	-	-	0	-	-	0	-	-	0
26	15	0	1	119	0	3	275	0	7
27	-	-	0	28	0	1	77	0	3
28	52	0	1	113	0	2	345	0	7
29	57	0	1	-	-	0	57	0	1
30	-	-	0	59	0	1	143	0	4
31	-	-	0	34	0	2	155	0	6
Totals	549	100	16	1,152	0	29	6,357	100	181

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - JANUARY

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
01	66	0	2	32	0	1	134	0	4
02	96	0	2	-	-	0	127	0	3
03	97	0	2	56	0	1	259	0	6
04	124	0	3	-	-	0	272	0	6
05	114	0	3	-	-	0	186	0	6
06	42	0	1	-	-	0	144	0	4
07	62	0	2	76	0	2	353	0	9
08	99	0	3	8	0	1	257	0	9
09	139	0	4	80	0	2	294	0	9
10	166	0	4	41	0	1	308	0	8
11	60	0	2	-	-	0	115	0	3
12	96	0	3	41	0	1	282	0	9
13	85	0	3	19	0	1	256	0	8
14	-	-	0	66	0	2	148	0	5
15	-	-	0	186	0	5	215	0	6
16	-	-	0	228	0	5	253	0	6
17	-	-	0	175	0	4	332	0	9
18	-	-	0	173	0	3	304	0	6
19	-	-	0	205	0	4	405	0	10
20	-	-	0	220	0	5	407	0	10
21	58	0	2	47	0	1	283	0	7
22	49	0	1	-	-	0	229	0	5
23	44	0	1	-	-	0	146	0	3
24	100	0	2	-	-	0	433	0	9
25	95	0	1	-	-	0	201	0	3
26	61	0	1	-	-	0	177	0	4
27	96	0	2	-	-	0	216	0	6
28	-	-	0	-	-	0	164	0	3
29	77	0	2	-	-	0	257	0	7
30	-	-	0	-	-	0	188	0	4
31	81	0	2	-	-	0	292	0	8
Totals	1,907	0	48	1,653	0	39	7,637	0	195

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - FEBRUARY

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
01	-	-	0	-	-	0	41	0	1
02	-	-	0	-	-	0	65	0	2
03	-	-	0	-	-	0	-	-	0
04	93	0	2	39	0	1	379	0	9
05	169	0	4	40	0	1	544	0	14
06	51	0	1	59	0	1	438	0	10
07	53	0	1	50	0	1	392	0	10
08	-	-	0	-	-	0	113	0	2
09	-	-	0	-	-	0	147	0	3
10	-	-	0	-	-	0	170	0	3
11	-	-	0	74	0	1	126	0	4
12	98	0	2	58	0	1	496	0	11
13	-	-	0	37	0	1	165	0	4
14	-	-	0	-	-	0	-	-	0
15	-	-	0	-	-	0	-	-	0
16	41	0	1	-	-	0	275	0	7
17	14	0	1	37	0	1	183	0	9
18	-	-	0	-	-	0	158	0	4
19	42	0	1	55	0	1	387	0	10
20	-	-	0	-	-	0	-	-	0
21	27	0	1	57	0	1	319	0	8
22	-	-	0	-	-	0	26	0	1
23	29	0	1	27	0	1	251	0	7
24	56	0	1	75	0	1	200	0	4
25	49	0	1	15	0	1	389	0	10
26	-	-	0	-	-	0	198	0	8
27	-	-	0	-	-	0	-	-	0
28	123	0	2	42	0	1	507	0	11
Totals	845	0	19	665	0	14	5,979	0	152

1997-98 SISTER LAKE OYSTER SEED RESERVATION SEASON - MARCH/APRIL

Date	# Sacks 94-Plants	#Bar/Seed 94-Plants	# Boats 94-Plants	# Sacks 95-Plants	#Bar/Seed 95-Plants	# Boats 95-Plants	# Sacks Sister L.	#Bar/Seed Sister L.	# Boats Sister L.
01	-	-	0	-	-	0	58	0	1
02	-	-	0	-	-	0	26	0	1
03	-	-	0	-	-	0	38	0	1
04	-	-	0	-	-	0	45	0	2
05	42	0	2	-	-	0	378	0	12
06	-	-	0	-	-	0	12	0	1
07	-	-	0	-	-	0	114	0	2
08	-	-	0	-	-	0	-	-	0
09	-	-	0	-	-	0	10	0	1
10	-	-	0	-	-	0	45	0	3
11	-	-	0	-	-	0	33	0	1
12	141	0	4	-	-	0	357	0	12
13	-	-	0	-	-	0	58	0	2
14	76	0	2	-	-	0	433	0	12
15	-	-	0	-	-	0	49	0	1
16	-	-	0	-	-	0	6	0	1
17	-	-	0	-	-	0	15	0	1
18	-	-	0	-	-	0	35	0	2
19	-	-	0	-	-	0	399	0	12
20	-	-	0	-	-	0	-	-	0
21	-	-	0	-	-	0	409	0	12
22	-	-	0	-	-	0	27	0	1
23	-	-	0	-	-	0	53	0	2
24	-	-	0	-	-	0	69	0	2
25	-	-	0	-	-	0	16	0	1
26	-	-	0	-	-	0	353	0	11
27	-	-	0	-	-	0	39	0	2
28	-	-	0	-	-	0	40	0	1
29	-	-	0	-	-	0	254	0	7
30	-	-	0	-	-	0	47	0	1
31	-	-	0	-	-	0	336	0	10
4/01	-	-	0	-	-	0	41	0	2
Totals	259	0	8	0	0	0	3,795	0	120

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
1213 North Lakeshore Drive
Lake Charles, LA 70601
(318)491-2575

M.J. "Mike" Foster
Governor

MEMORANDUM

TO: RON DUGAS, BIOLOGICAL PROGRAMS MANAGER

FROM: MICHAEL HARBISON, BIOLOGIST 2, CSA VII

DATE: MAY 22, 1998

SUBJECT: CALCASIEU LAKE 1997-98 OYSTER SEASON FINAL REPORT

FIND ATTACHED THE FINAL DATA FOR CALCASIEU LAKE 1997-98 OYSTER SEASON.

THE FIRST TABLE IS A SUMMARY OF THE ENTIRE SEASON. THE SUMMARY DATA WAS DERIVED FROM THE DATA TABLES THAT FOLLOW.

IF MORE INFORMATION IS NEEDED PLEASE LET ME KNOW.

MDH:mdh

cc:DCC

1997-98 CALCASIEU LAKE OYSTER SEASON DATA

MONTH	CAL. LAKE		WEST COVE		OYSTER	SACKS	\$/SACK (AVE.)
	OPEN	CLOSED	OPEN	CLOSED	TAG SALES	LANDED	
OCTOBER	16	0	16	0	1,000	2,168	15.00
NOVEMBER	30	0	29	1	12,500	8,661	17.00
DECEMBER	24	7	22	9	13,022	21,305	14.00
JANUARY	4	27	0	31	22,000	4,431	14.00
FEBRUARY	20	8	5	23	16,000	18,162	14.00
MARCH	15	16	0	31	16,100	12,072	14.00
APRIL	30	0	29	1	8,500	13,936	14.00
TOTALS	139	58	101	96	89,722	80,735	

CALCASIEU LAKE OYSTER SEASONS

SEASON	SEASON							EXTENDED SEASON							TOTAL SEASON DAYS
	DATES			HEALTH CLOSURES				DATES			HEALTH CLOSURES				
	OPEN DATE	CLOSED DATE	TOTAL DAYS	DAYS OPEN	DAYS CLOSED	DAYS OPEN	DAYS CLOSED	OPEN DATE	CLOSED DATE	TOTAL DAYS	DAYS OPEN	DAYS CLOSED	DAYS OPEN	DAYS CLOSED	
1989-1990	11-15	3-15	121	79	42	79	42	3-16	4-30	46	40	6	40	6	165
1990-1991	11-15	3-1	147	95	52	95	52	3-30	4-20	34	20	0	20	0	181
1991-1992	10-15	3-1	139	69	70	69	70	3-2	4-30	60	45	15	45	15	199
1992-1993 ¹	10-15	3-1	138	123	15	76	62	3-8	4-3	27	14	13	0	27	165
1993-1994	11-1	3-1	121	94	27	61	60	3-2	4-30	60	52	8	23	7	181
1994-1995 ²	11-1	3-1	121	69	52	9	112	3-2	4-30	60	21	39	0	60	181
1995-1996	10-16	3-1	138	125	13	80	58	3-2	3-31	30	30	0	30	0	-
1996-1997	10-16	5-1	197	149	48	83	114	4-11	4-30	20	20	0	5	15	188
1997-1998	10-16	4-30	197	139	58	101	96	-	-	-	-	-	-	-	197
1998-1999															
1999-2000															

¹ STARTING WITH 92-93 SEASON CALCASIEU LAKE WAS SPLIT INTO TWO UNITS. EASTSIDE (WITH RIVER STAGE CLOSURE @ 12 ft.) AND WESTCOVE (WITH RIVER STAGE CLOSURE @ 7 ft.).

² DHH CLOSED EASTSIDE (FROM 11/1-12/10/94) AND WESTCOVE (FROM 11/1-1/28/95) WITH A PRECAUTIONARY (POSSIBLE LEAD CONTAMINATION) CLOSURE.

TOTAL OYSTER LANDINGS FROM DEALER REPORT IN CSA VII

	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/2000
OCTOBER	-----	0	-----	211	720	2,168		
NOVEMBER	8,081	2,782	0 ¹	3,427	4,383	8,661		
DECEMBER	11,055	5,737	2,061	6,066	14,036	21,305		
JANUARY	3,025	2,632	2,066	6,668	14,428	4,431		
FEBRUARY	4,971	1,042	1,378	5,185	2,135	18,162		
MARCH	196	325	426	5,628	4,239	12,072		
APRIL	0	300	203	1,897	3,500	13,936		
TOTAL	27,328	12,818	6,134	29,082	43,441	80,735		

1 SEASON WAS CLOSED 10-31-94 BY DHH UNTIL 12/10/94.

CALCASIEU LAKE OYSTER SEASON

OCTOBER 1997

[illegible]

CALCASIEU LAKE OYSTER SEASON

NOVEMBER 1997

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X		X		3.21	2.06	0.00
2	X		X		3.20	2.06	0.00
3	X		X		3.18	2.06	0.00
4	X		X		2.90	2.06	0.00
5	X		X		2.62	2.15	0.11
6	X		X		2.55	2.19	0.00
7	X		X		2.44	2.19	0.00
8	X		X		2.40	-	0.00
9	X		X		2.3	-	0.00
10	X		X		2.31	2.40	0.32
11	X		X		2.3	-	0.00
12	X		X		2.34	3.02	1.57
13	X		X		2.50	3.26	0.11
14	X		X		2.51	0.05	T
15	X		X		-	0.05	0.04
16	X		X		-	0.05	0.00
17	X		X		2.9	0.05	0.00
18	X		X		2.76	0.12	0.93
19	X		X		3.20	1.09	0.00
20	X		X		3.24	1.09	0.00
21	X		X		3.18	-	1.23
22	X		X		4.02	-	0.00
23	X		X		3.7	-	0.00
24	X		X		3.23	1.98	0.00
25	X		X		3.07	1.98	0.00
26	X		X		3.03	1.98	0.00
27	X		X		2.96	-	0.00
28	X		X		2.86	-	0.01
29	X		X		7.54	-	T
30	X			X	8.7	5.07	0.00
TOTALS	30	0	29	1		6.27	4.32

CALCASIEU LAKE OYSTER SEASON

DECEMBER 1997

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X		X		7.33	5.07	0.00
2	X		X		5.91	5.07	0.00
3	X		X		4.96	6.05	0.73
4	X		X		5.41	6.05	0.00
5	X		X		5.16	6.05	0.00
6	X		X		5.68	-	0.00
7	X		X		5.8	-	0.01
8	X		X		5.64	6.91	0.03
9	X		X		6.69	6.91	0.00
10	X		X		6.39	6.97	0.00
11	X		X		6.50	0.05	T
12	X		X		6.03	0.05	T
13	X		X		5.55	0.05	0.00
14	X		X		5.1	0.05	0.00
15	X		X		4.79	0.05	0.00
16	X		X		4.51	0.05	0.00
17	X		X		3.92	0.05	0.00
18	X		X		-	-	0.00
19	X		X		-	-	0.00
20	X		X		3.44	-	0.61
21	X		X		4.0	-	0.67
22	X		X		9.17	1.62	0.00
23	X			X	9.52	2.32	0.62
24	X			X	11.85	3.66	0.06
25		X		X	-	-	0.00
26		X		X	14.72	-	0.79
27		X		X	14.96	-	0.00
28		X		X	15.20	-	0.00
29		X		X	15.25	4.53	0.00
30		X		X	14.24	4.53	0.00
31		X		X	-	4.53	0.00
TOTALS	24	7	22	9		6.43	3.52

CALCASIEU LAKE OYSTER SEASON

JANUARY 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1		X		X	12.9	4.53	0.00
2		X		X	12.72	4.53	0.00
3		X		X	12.0	4.53	0.00
4		X		X	11.9	4.53	1.35
5	X			X	12.03	6.38	0.04
6	X			X	12.00	6.71	2.67
7	X			X	14.24	9.79	0.23
8		X		X	16.15	9.86	0.00
9		X		X	16.90	9.86	0.00
10		X		X	-	-	0.00
11		X		X	18.4	-	0.00
12		X		X	17.64	10.62	1.39
13		X		X	17.62	10.73	0.86
14		X		X	17.61	12.27	0.03
15		X		X	17.60	12.53	T
16		X		X	17.60	12.54	0.00
17		X		X	18.26	-	0.00
18		X		X	17.9	-	0.00
19		X		X	17.9	-	0.00
20		X		X	17.88	00.05	0.00
21		X		X	12.55	00.05	T
22		X		X	13.50	04.05	1.75
23		X		X	15.72	04.05	0.00
24		X		X	16.44	04.05	0.00
25		X		X	16.00	04.05	0.00
26		X		X	15.55	04.50	0.25
27		X		X	15.11	04.58	0.00
28		X		X	13.30	04.59	0.00
29		X		X	11.64	04.59	0.00
30		X		X	10.77	04.59	0.05
31	X			X	10.69	04.59	0.00
TOTALS	4	27	0	31		12.60	8.62

CALCASIEU LAKE OYSTER SEASON

FEBRUARY 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	10.86	04.59	0.02
2	X			X	10.87	04.59	0.03
3	X			X	10.35	04.76	0.00
4	X			X	8.76	04.76	0.00
5	X			X	7.76	04.76	T
6	X			X	6.95	04.76	0.00
7	X			X	6.39	-	0.00
8	X		X		6.03	-	0.00
9	X		X		5.81	04.78	T
10	X		X		5.63	00.05	1.77
11	X		X		6.83	00.88	0.00
12	X		X		9.78	00.88	T
13	X			X	10.99	00.88	0.00
14	X			X	11.11	-	0.00
15	X			X	10.51	-	0.17
16	X			X	9.68	01.71	0.93
17	X			X	11.15	02.35	0.00
18	X			X	12.30	02.35	0.00
19		X		X	12.56	02.36	0.15
20		X		X	12.26	02.36	0.00
21		X		X	11.33	-	0.00
22		X		X	10.93	-	1.12
23	X			X	12.12	03.37	0.00
24	X			X	13.51	03.37	0.00
25		X		X	13.59	03.38	0.00
26		X		X	13.08	03.39	0.94
27		X		X	13.28	04.29	T
28		X		X	13.87	04.29	0.00
TOTALS	20	8	5	23		4.43	5.13

CALCASIEU LAKE OYSTER SEASON

MARCH 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1		X		X	13.60	4.29	0.00
2		X		X	13.08	4.29	0.00
3		X		X	12.00	4.29	0.00
4		X		X	10.61	4.29	0.03
5	X			X	10.01	4.29	0.00
6	X			X	9.91	4.29	0.03
7	X			X	9.90	5.03	1.70
8	X			X	12.76	6.65	0.00
9		X		X	12.79	6.65	0.00
10		X		X	13.58	0.05	0.00
11		X		X	13.22	0.05	0.00
12		X		X	13.04	0.05	0.00
13		X		X	11.69	0.05	0.05
14		X		X	10.12	-	0.19
15	X			X	9.56	-	0.00
16	X			X	9.32	0.08	1.71
17	X			X	12.58	3.09	0.00
18	X			X	* 12.74	3.10	0.01
19		X		X	* 12.73	3.11	0.02
20		X		X	* 12.73	3.11	0.00
21		X		X	14.43	3.11	0.00
22		X		X	13.58	3.11	0.00
23		X		X	11.68	3.11	0.00
24		X		X	10.25	3.11	0.00
25	X			X	10.10	3.11	0.00
26	X			X	10.64	3.11	0.00
27	X			X	10.90	3.11	0.00
28	X			X	10.47	3.11	0.00
29	X			X	9.10	3.11	0.00
30	X			X	7.19	3.11	0.00
31	X			X	6.12	03.12	0.01
TOTALS	15	16	0	31		5.43	3.75

* THESE THREE DAYS THE RIVER GAUGE WAS HUNG. LEVELS FROM THE INTERNET ARE 18th-14.51, 19th-14.95, AND 20th-14.79.

CALCASIEU LAKE OYSTER SEASON

APRIL 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	5.49	3.12	0.00
2	X		X		5.20	3.12	0.00
3	X		X		5.08	3.25	0.00
4	X		X		5.04	3.25	0.00
5	X		X		4.71	3.25	0.00
6	X		X		4.63	3.25	0.00
7	X		X		4.43	3.25	0.00
8	X		X		4.24	3.25	T
9	X		X		4.21	3.25	0.00
10	X		X		4.10	3.25	0.00
11	X		X		3.99	3.25	0.00
12	X		X		3.86	3.25	0.00
13	X		X		3.75	3.25	0.01
14	X		X		3.67	3.31	0.00
15	X		X		3.63	3.31	0.00
16	X		X		3.50	0.05	0.00
17	X		X		3.48	0.12	0.01
18	X		X		2.88	-	1.33
19	X		X		3.00	-	0.00
20	X		X		3.86	1.76	0.00
21	X		X		4.64	1.76	0.00
22	X		X		5.34	1.76	0.00
23	X		X		4.73	1.76	0.00
24	X		X		4.73	1.76	0.00
25	X		X		4.75	1.76	0.00
26	X		X		4.71	1.76	0.00
27	X		X		4.46	1.76	0.85
28	X		X		5.42	3.49	T
29	X		X		4.62	3.77	0.24
30	X		X		4.78	3.81	0.00
5-1		X		X	-	-	-
TOTALS	30	0	29	1		4.00	2.44

1997-98 CALCASIEU LAKE OYSTER SEASON DATA

MONTH	CAL. LAKE		WEST COVE		OYSTER TAG SALES	* SACKS LANDED	\$ / SACK (AVE.)
	OPEN	CLOSED	OPEN	CLOSED			
OCTOBER	16	0	16	0	1,000	2,168	15.00
NOVEMBER	30	0	29	1	12,500	8,661	17.00
DECEMBER	24	7	22	9	13,022	21,305	14.00
JANUARY	4	27	0	31	22,000	4,431	14.00
FEBRUARY	20	8	5	23	16,000	18,162	14.00
MARCH	15	16	0	31	16,100	12,072	14.00
APRIL	30	0	29	1	8,500	13,936 ✓	14.00
TOTALS	139	58	101	96	89,722	80,735	

OYSTER STATUS IN CALCASIEU LAKE

SEASONS	STOCK ASSESSMENT		* ESTIMATED SACKS HARVESTED
	MARKETABLE	TOTAL	
1963	-	-	210,160
1967-74	-	-	NO COMMERCIAL LANDINGS
1975-76	142,726	441,183	40,000
1976-77	694,420	869,475	100,000
1977-78	483,673	621,885	141,976
1978-79	-	-	75,000
1979-80	676,333	979,613	125,000
1980-81	355,664	705,117	150,000
1981-82	608,110	988,575	-
1982-83	-	-	50,000-75,000
1983-84	-	-	150,000
1984-85	125,407	644,788	-
1985-86	315,160	537,760	27,400
1986-87	589,940	1,217,959	200,000
1987-88	796,950	2,703,647	125,000
1988-89	463,331	1,036,580	50,000
1989-90	172,046	640,892	40,000
1990-91	408,961	1,268,962	50,000
1991-92	1,048,882	1,731,367	31,383
1992-93	749,915	1,612,736	27,328
1993-94	748,281	1,238,783	12,818
1994-95	756,525	1,246,480	6,134
1995-96	956,926	1,298,379	29,082
1996-97	618,767	1,083,866	43,441
1997-98			20,712
1998-99			
1999-2000			

1998/1999 M² SAMPLES

AND

STOCK ASSESSMENT

COASTAL STUDY AREA I
JOHN BURDON

State of Louisiana



James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(504)765-2800

M.J. "Mike" Foster
Governor

8.B. TO: Ron Dugas, Oyster Prog. Mgr.
From: John Burdon, Sup./ CSA-I
Reference: Oyster Square Meter Samples / Projected Production
Date: July 228, 1998

The following information on oysters by square meter analysis and estimated production based on the samples is presented. An assessment of hooked mussel fouling is also included.
Spat (< 25mm) , Seed (26 mm - 74 mm) , Sack (Market) (75 mm >)

Hospital Wall (sta. 1) Avg. Sal. 6.7 ppt.
No oysters or hooked mussels were retrieved from this location.

Grassy Island (sta.2) Avg. Sal. 15.0 ppt.
Sq .meter sample 1. Seed - 1 Sack - 1
Hooked Mussels - 98 total , Size range of 20 mussels (15 mm - 49mm)

Sq. Meter sample 2. Seed - 3 Sack - 2
Hooked Mussels - 136 total, Size range of 20 mussels (5mm - 39mm)

Grand Island (Half moon) (sta. 3) Avg. Sal. 10.7 ppt.
Sq. Meter sample 1. Seed - 1 Sack - 1
Hooked Mussels - 552 total , Size range of 20 mussels (15mm - 49mm)

Sq. Meter sample 2. No Oysters
Hooked Mussels - 410 total , size range of 20 mussels (10mm - 44mm)

Petit Pass (sta. 4) Avg. Sal. 11.5 ppt.
Sq. Meter sample 1. Seed - 1
Hooked Mussels - Prevalent in dredge samples , not present in sq. meter samples

Sq. Meter sample 2. No Oysters
Hooked Mussels - Prevalent in dredge samples , not present in sq. meter samples

Three Mile Bay (sta.5) Avg. Sal. 15.8 ppt.
Sq. Meter sample 1. Spat - 3 , Seed - 26 , Sack - 10
Hooked mussels - 22 total , size range of 20 mussels (10mm -54mm)

Sq. Meter sample 2. Spat - 2 , Seed - 31 , Sack - 18
Hooked mussels - 68 total , size range of 20 mussels (10mm - 49mm)

Grand Pass (sta. 6) Avg. Sal. 18.7 ppt.
Sq. Meter sample 1. Seed - 14 , Sack - 7
Hooked mussels - 1 total Size 5-9mm

Grand Pass (sta.6) Avg. Sal. 18.7
Sq.Meter sample 2. Spat - 1 , Seed - 34 , Sack - 16
Hooked mussels - 2 total Both size 10-14mm

Cabbage Reef (sta. 7) Avg. Sal.21.7 ppt.
Sq. Meter sample 1. Seed - 13 , Sack - 2
Hooked mussels - None Present

Sq. Meter sample 2. Seed - 6 , Sack - 11
Hooked mussels - None Present

Martin Island (sta. 9) Avg. Sal. 18.2 ppt.
Sq. Meter samples 1 and 2. No oysters or Hooked mussels present.

Holmes Island (sta. 10) Avg. Sal. 24.7 ppt.
Sq. Meter samples 1 and 2. No oysters or Hooked mussels present.

Turkey Bayou (sta.11) Avg. Sal. 16.5 ppt.
Sq. Meter sample 1. Seed - 11, Sack - 9
Hooked mussels - 14 total Size range 10- 39mm

Sq. Meter sample 2. Seed - 11 , Sack -5
Hooked mussels - 1 total Size 30-34mm

cc: Bob Ancelet, Bio. Sup./CSA-2
Claude Boudreaux, Asst. Div. Adm. Mar. Fish.

Attachments (2) Oyster Availability Location Map.....Seed/ Sack

1998 CSA 1 Meter Square Results Revised

Station	Station	Reef	Reef	Avg per frame						
Name	Number	Acreage	Sq. Meters	seed	sack	Bbls Seed	BblsSack	spat	mussels	drills present
Hospital	1	376.07	1,521,955.29	0	0	0	0			
Grassy	2	6850.17	27,722,638.00	2	1.5					
Halfmoon	3			0.5	0.5					
Petit	4			0.5	0					
	2-4			1.00	0.67	38,504	51,338			
3 Mile	5	3058.65	12,378,356.55	28.5	14.5	489,977	498,573			
Grand Pass	6	1801.76	7,291,722.72	24	11.5					
Cabbage	7			9.5	6.5					
Turkey	11			11	7.5					
	6-11			14.83	8.50	150,223	172,166			
Martin Is	9	4155.7	16,818,117.90	0	0					
Holmes Is	10			0	0					
	9-10			0.00	0.00	0	0			
2000 SP	12	70	283,290	0	0	0	0			

Total		678,703	722,077
Combined Total		1,400,780	

1998

COASTAL STUDY AREA I OYSTER AVAILABILITY

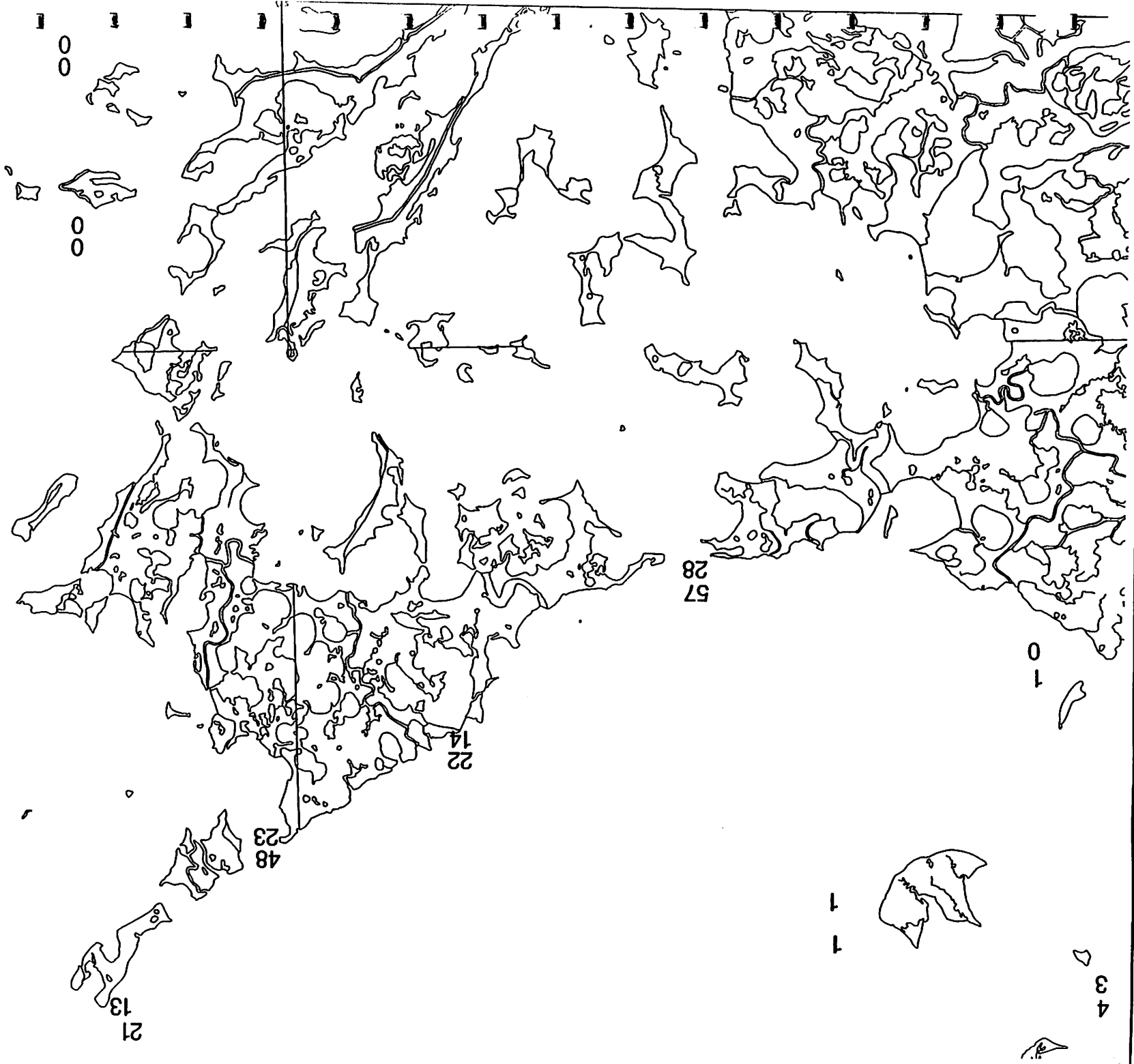
Meter ² Station	Reef Acreage	# Meter ²	#Seed Oyster	#Sack Oyster	BBLs Seed	BBLs Sack
001	376.07	1,521,955.29	0	0	0	0
002			2	2		
003			1	1		
004			1	1		
002-004	6850.17	27,722,638.00	4	3	154,015	231,022
005	3058.65	12,378,356.55	24	15	412,612	515,765
006			24	12		
007			10	7		
008			—	—		
011			11	8		
006-011	1801.76	7,291,722.72	45	27	455,733	546,879
009			0	0		
010			0	0		
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	631.27	2,554,749.69	—	—	—	—
ELO1	2691.84	10,893,876.48	—	—	—	—
TOTALS						

1,022,360 1,293,666

Revised: 678,703

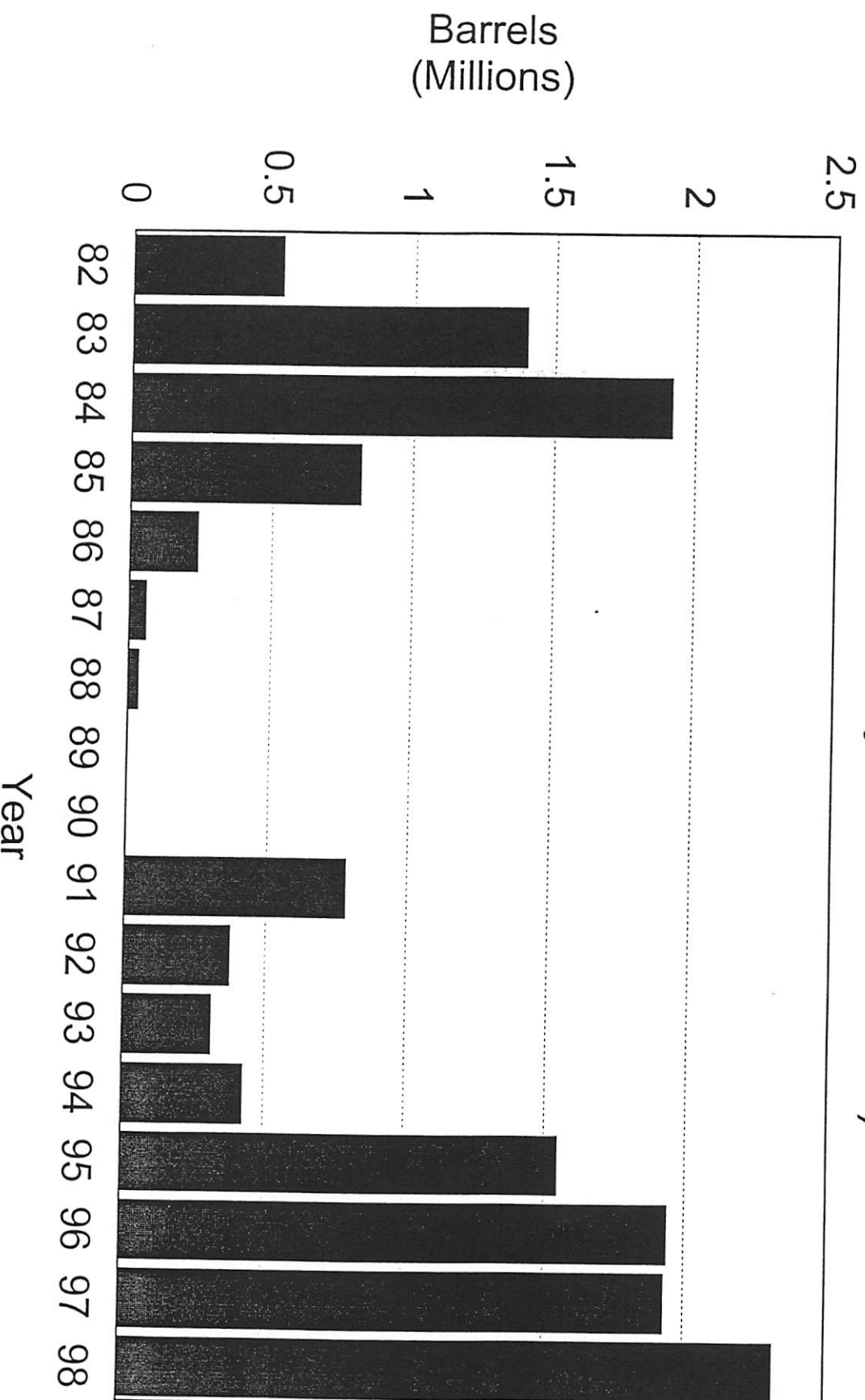
722,077

Area 1
M² 1998
S = Spat
Seed
Sack



Oysters Available on the Public Grounds in Coastal Study Area I

(Seed and Sack Oysters Combined)



COASTAL STUDY AREA II
ROBERT L. ANCELET

State of Louisiana




James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
1600 Canal Street
New Orleans, LA 70112
(504)568-5667

M.J. "Mike" Foster
Governor

August 5, 1998

M E M O R A N D U M

TO: Ron Dugas, Oyster Program Manager 
FROM: Robert L. Ancelet, Biologist Supervisor
Coastal Study Area II
SUBJECT: CSA II Meter Square Samples (1998)

Personnel from Coastal Study Area II completed the 1998 meter square sampling project on July 28, 1998. A total of 28 stations were sampled from Bay Gardene and Northern Black Bay to Breton Sound. The stock assessment for seed oysters was down by 572,325 barrels, while sack oyster availability was down by 1,092,468. We found 1,524,350 barrels of seed oysters and 777,678 barrels of sack oysters. Ample seed oysters were found at : Snake Island, Bayou Lost, West Stone Island, Bay crab, Bel la Pass, and Bay Gardene. Sack oysters appear to be more numerous at: Bayou Lost, West Stone Island, Iron Banks, Snake Island, and Bay Gardene.

An overall decrease in our stock assessment for this year is attributed to the loss of sack oysters at the outer more saline stations and Lake Fortuna.

Mussels were encountered at all stations except 28, the wreck, and 25, Battledore Reef. This may be misleading, since only station 24 in Bay Gardene at Bayou Fontanelle had a severe infestation. Measurements in mm of 20 mussels (all if sample contained less than 20) and counts were made at each station (see attachment) and reported herein.

Assessment by station are presented in tabular form (see table). A map of spat, seed, and sack oysters is included.

RLA:ymw

COASTAL STUDY AREA II
1998 OYSTER AVAILABILITY

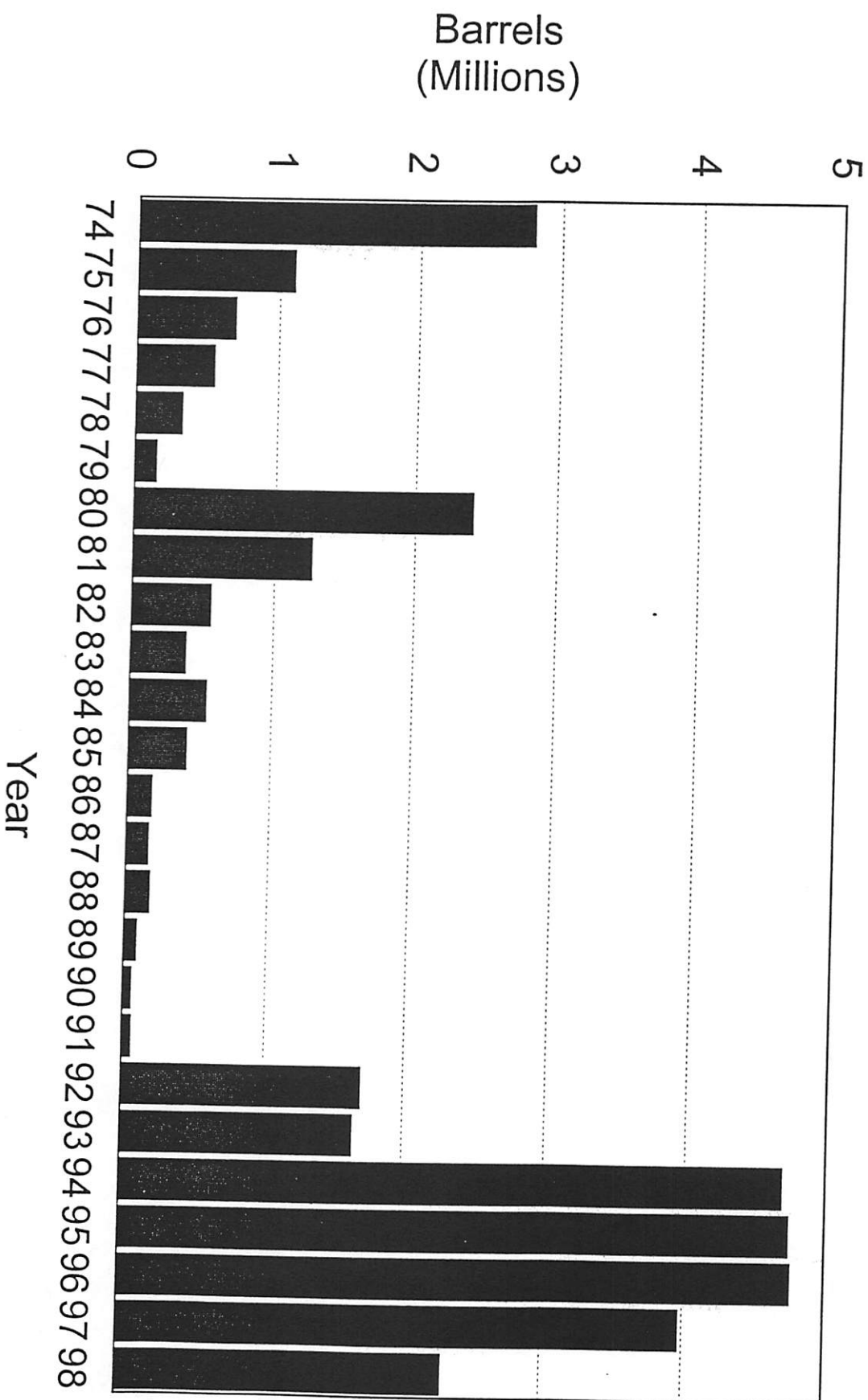
Meter ³ Station	Grids	Acres	Meter ³	# Seed Oys	# Sack Oys	BBLS Seed	BBLS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	64	18.3	182,025	104,096
2	7,6,5,11, 12	59	283,773	12.67	7.67	4,994	6,046
3	13,14,15	896	3,626,112	9.67	2.67	48,701	26,894
5	17,18,25,24	118	477,546	67	37.67	44,438	49,970
6	20,21,16	716	2,897,652	20.67	7	83,187	56,343
7	19,26,27	301	1,218,147	17	4.33	28,762	14,652
8	31,36,32	501	2,027,547	36.67	4.33	103,264	24,387
9	33,34,35	461	1,865,667	53.67	17.33	139,070	89,811
10	40,44	145	586,815	6	7	4,890	11,410
11	42,43,46	339	1,371,933	34.33	14.33	65,414	54,610
12	47	425	1,719,975	23.33	15.33	55,732	73,242
13	50,51	109	441,123	13.33	5.33	8,167	6,531
14	48,49	7	28,329	33.33	13.67	1,311	1,076
16	62,63,64	174	704,178	25.33	12.67	24,773	24,783
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	937	3,792,039	4.33	3	22,804	31,600
20	56,58	293	1,185,771	4	2	6,588	6,588
21	37,38,41	659	2,666,973	52.33	16	193,837	118,532
22	39	122	493,734	39.33	6	26,970	8,229
23	30,23	28	113,316	11.67	1.67	1,837	526
24	22,29	69	279,243	59.33	37	23,010	28,700
4	Horseshoe	315	1,274,805	2.33	1	4,125	3,541
15	Outside	127	513,969	.33	2.67	236	3,812
18	Outside	1,528	6,183,816	0	0	0	0
26	Same as #4						
25	Battledore	1,419	5,742,693	0	0	0	0
27	L. Fortuna	4,288	17,353,536	15.67	.67	377,679	32,299
28	Wreck	2,276	9,210,972	5.67	0	72,536	0
					Total	1,524,350	777,678

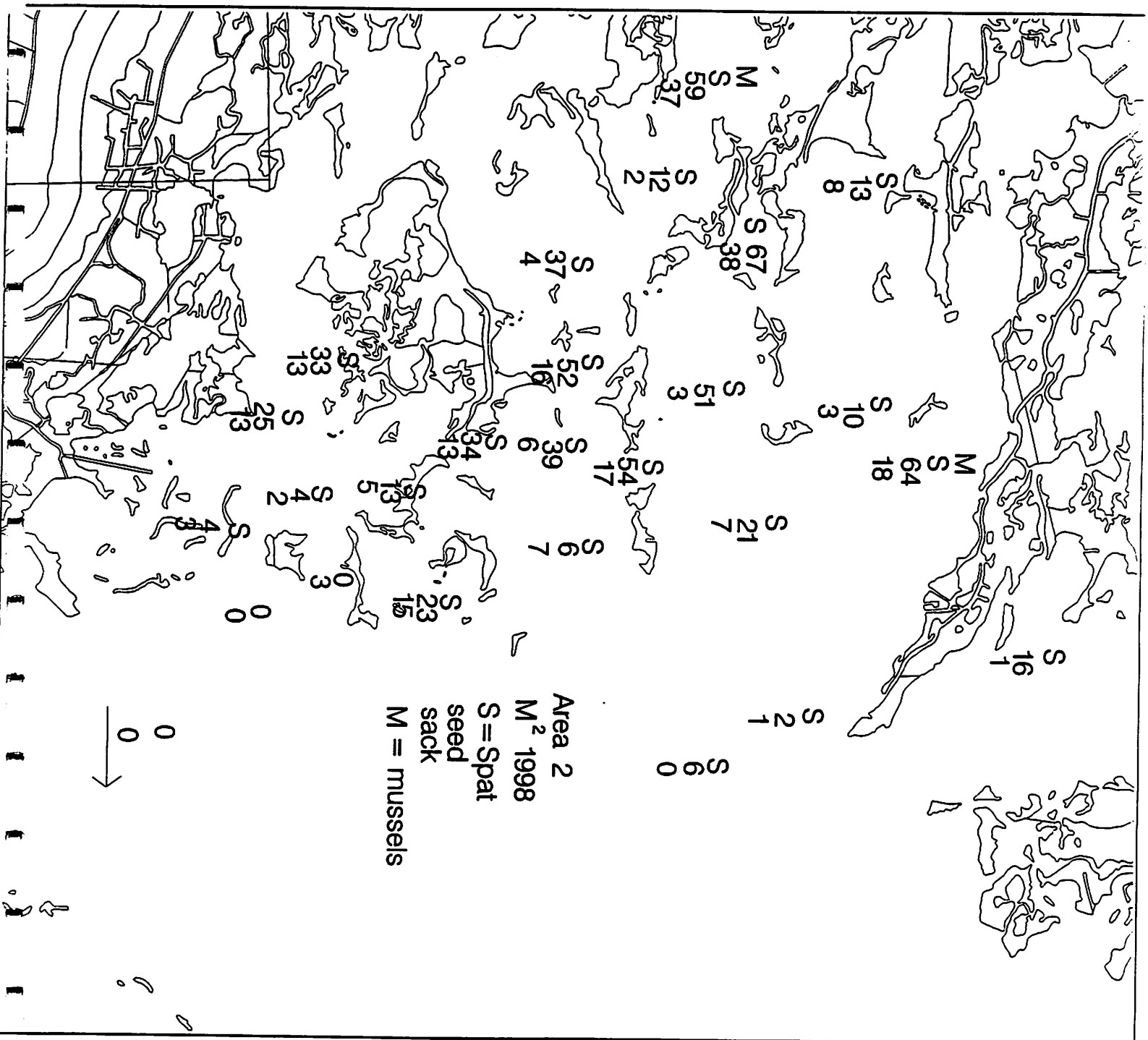
2,302,028

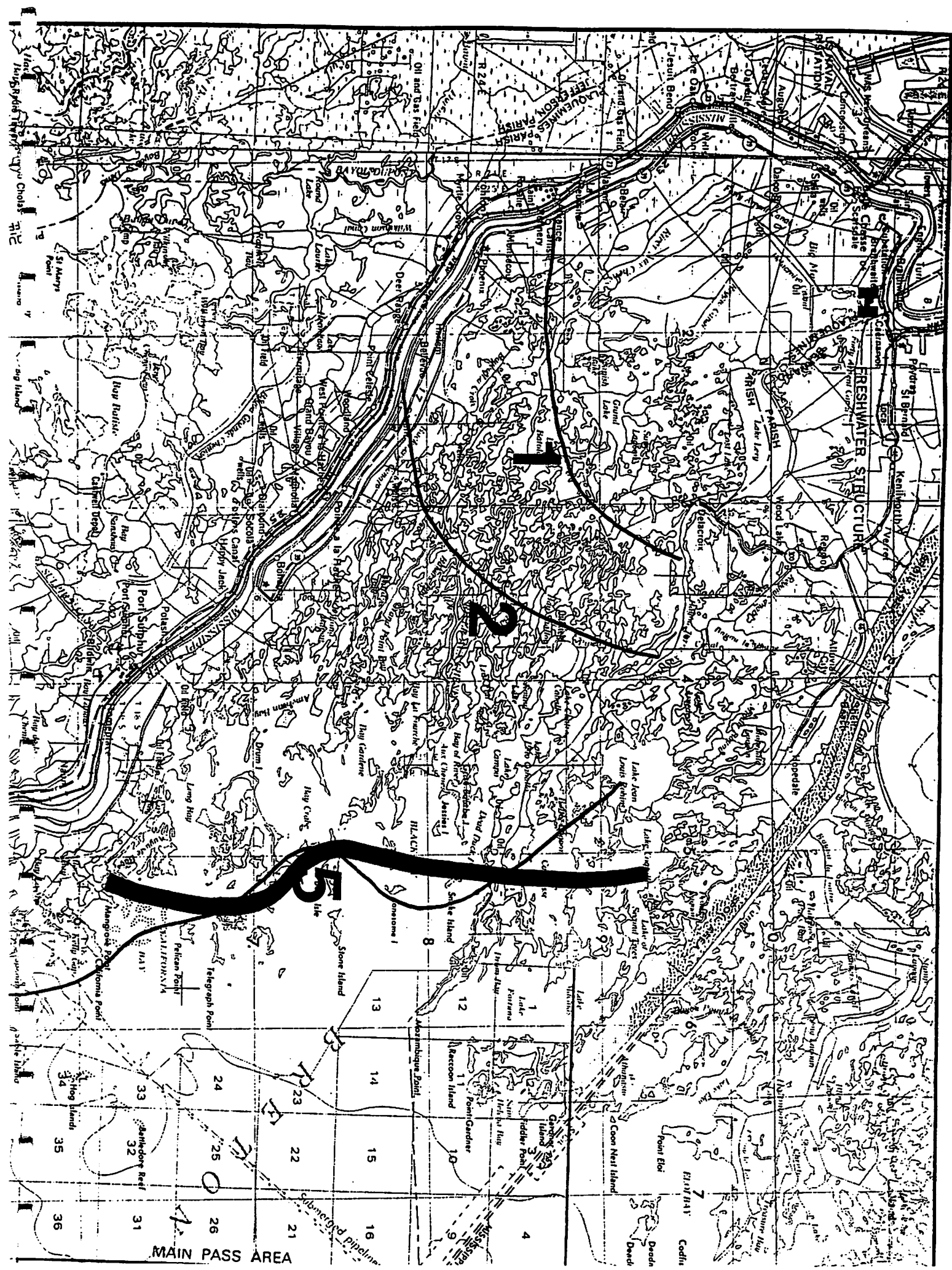
* 1992 Availability changed from 1.4ish M bbls on the
1997 graph to 1.7ish M bbls on 1998 graph

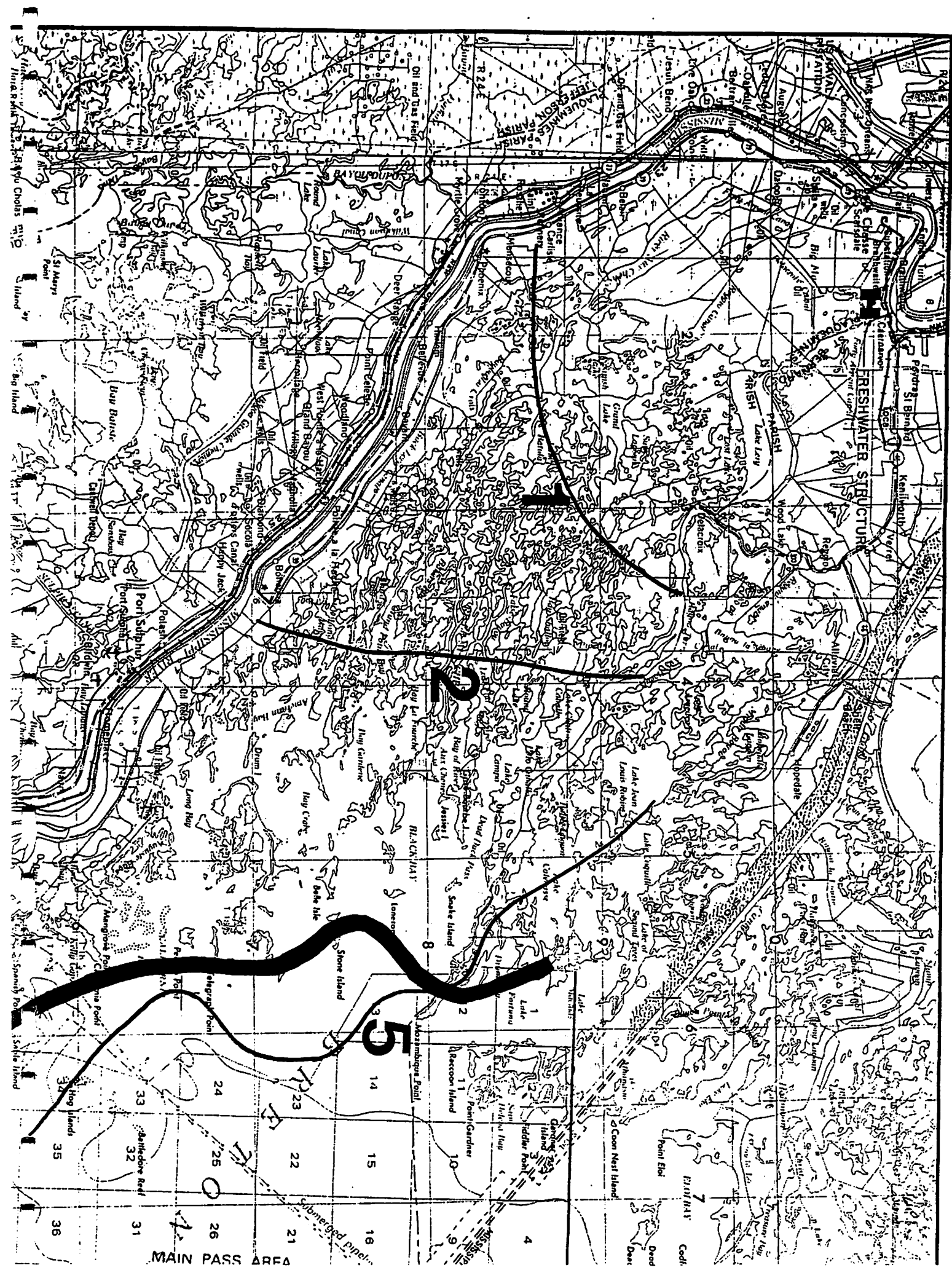
Oysters Available on the Public Grounds in Coastal Area II

(Seed and Sack Oysters Combined)

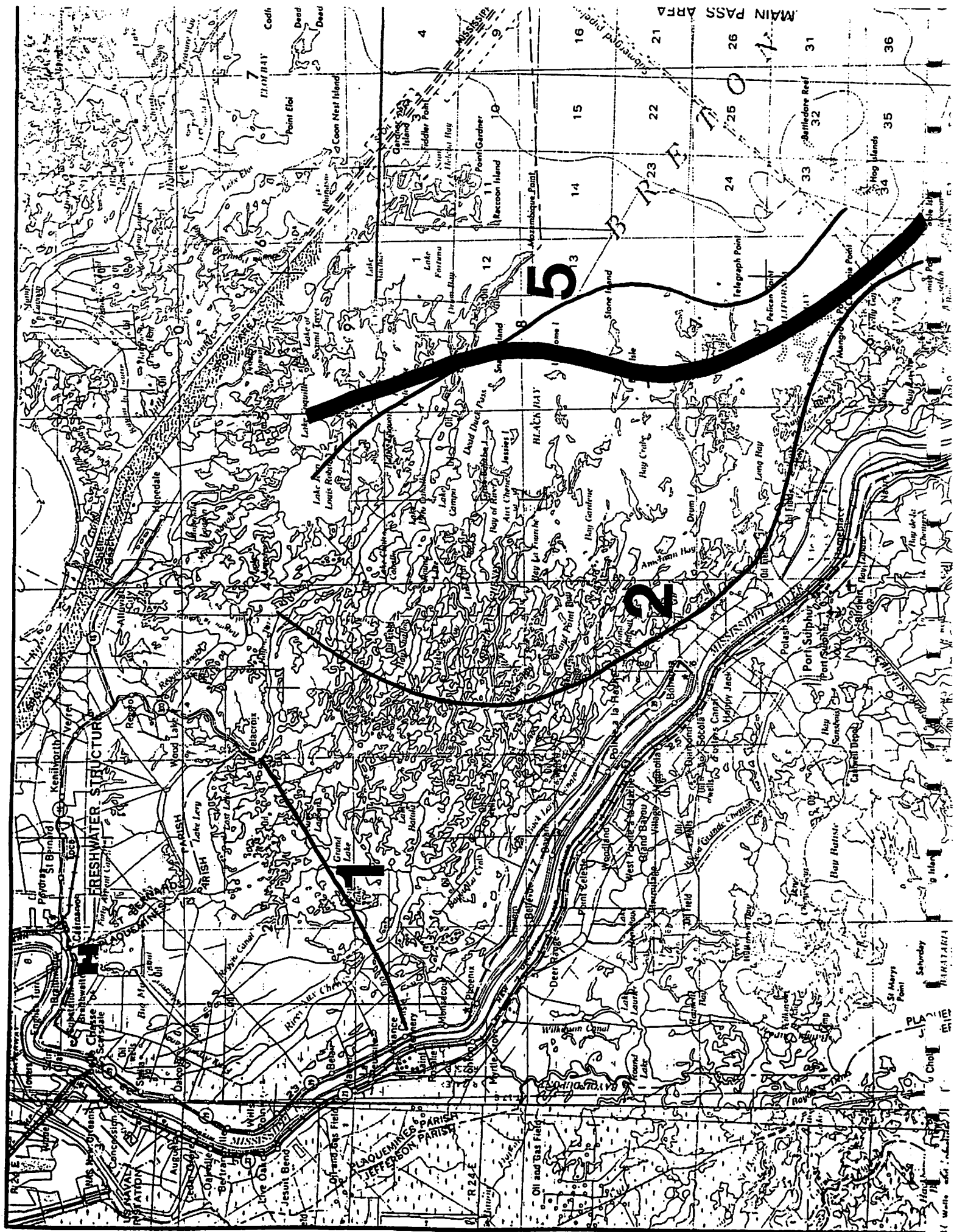


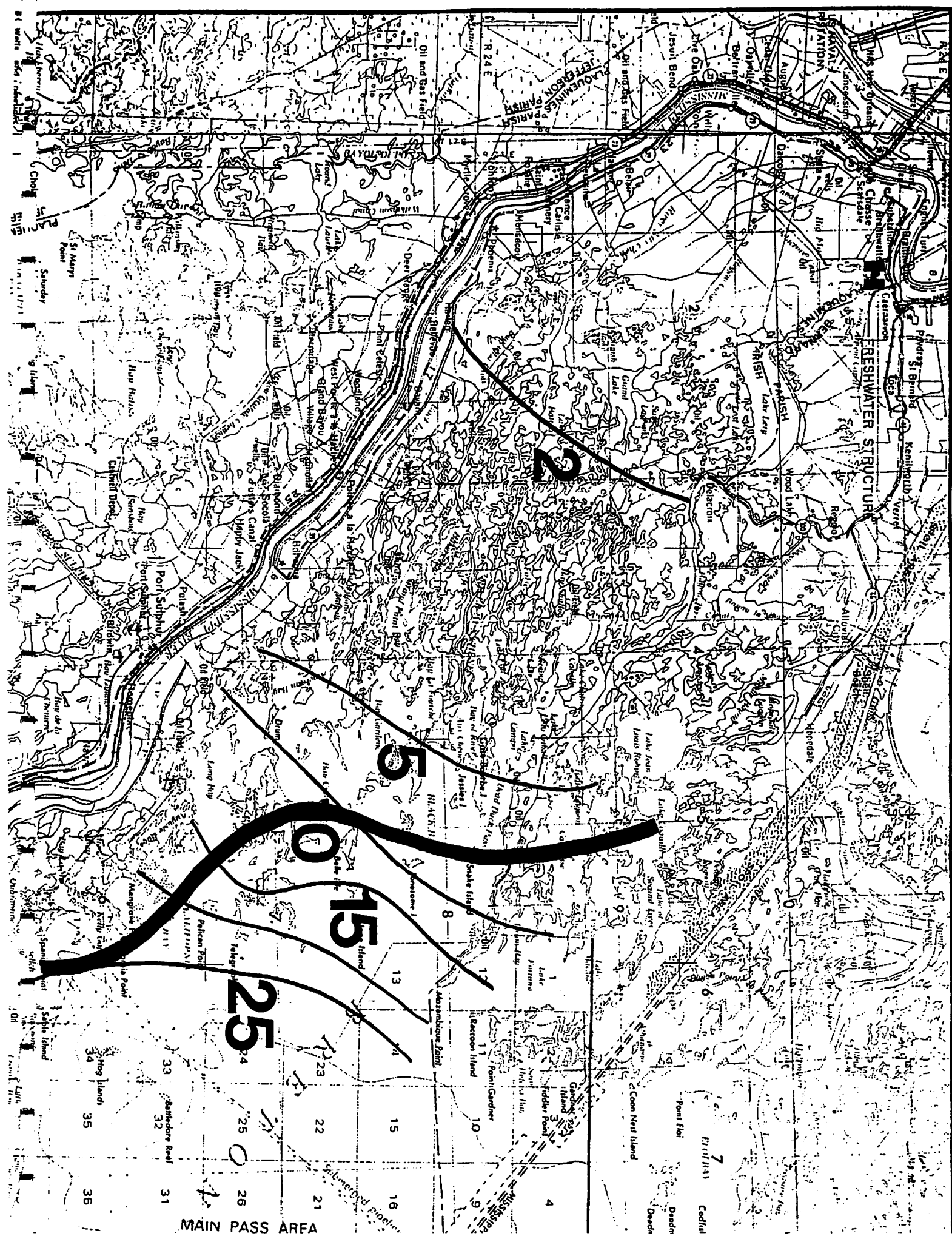


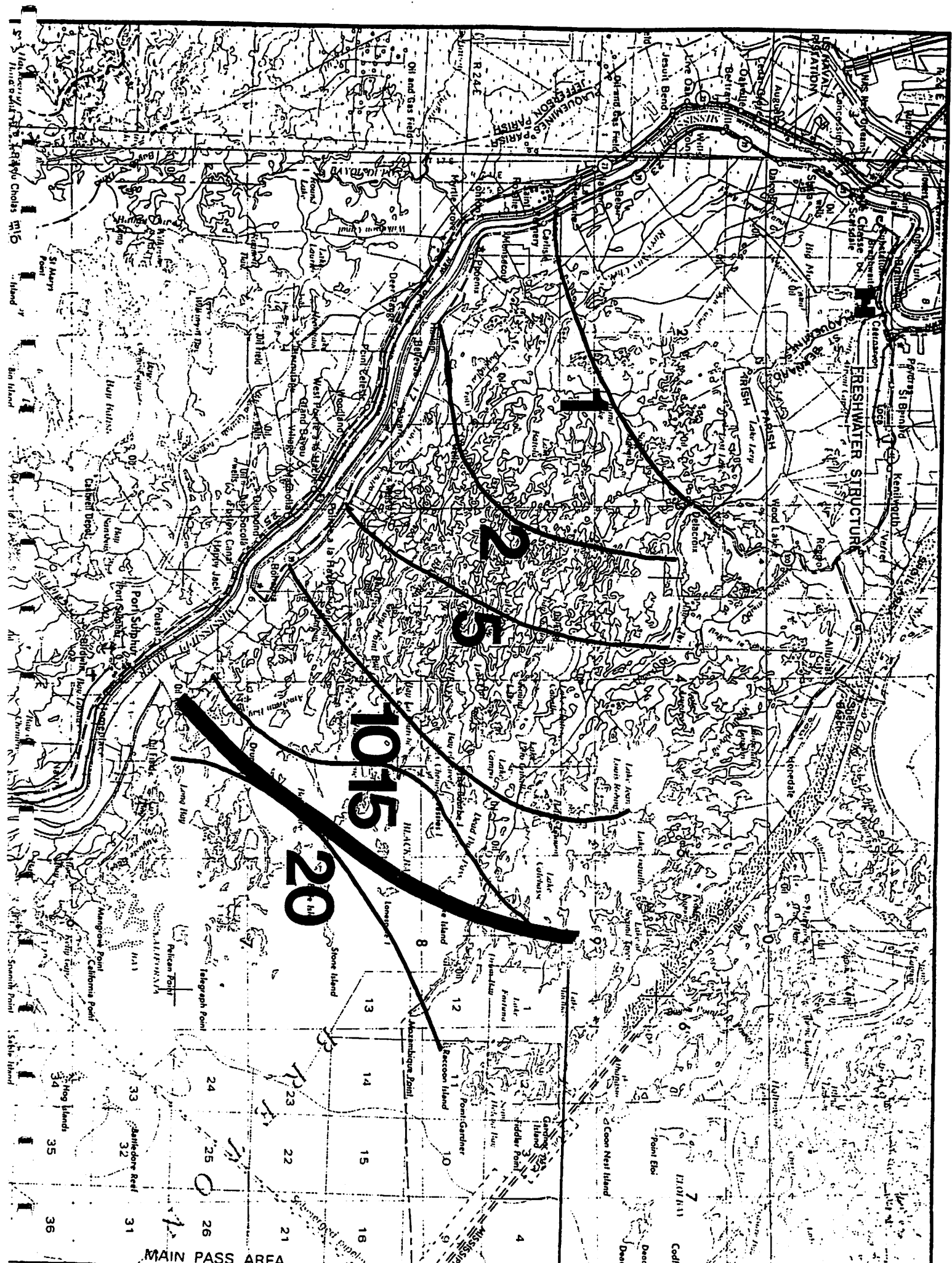




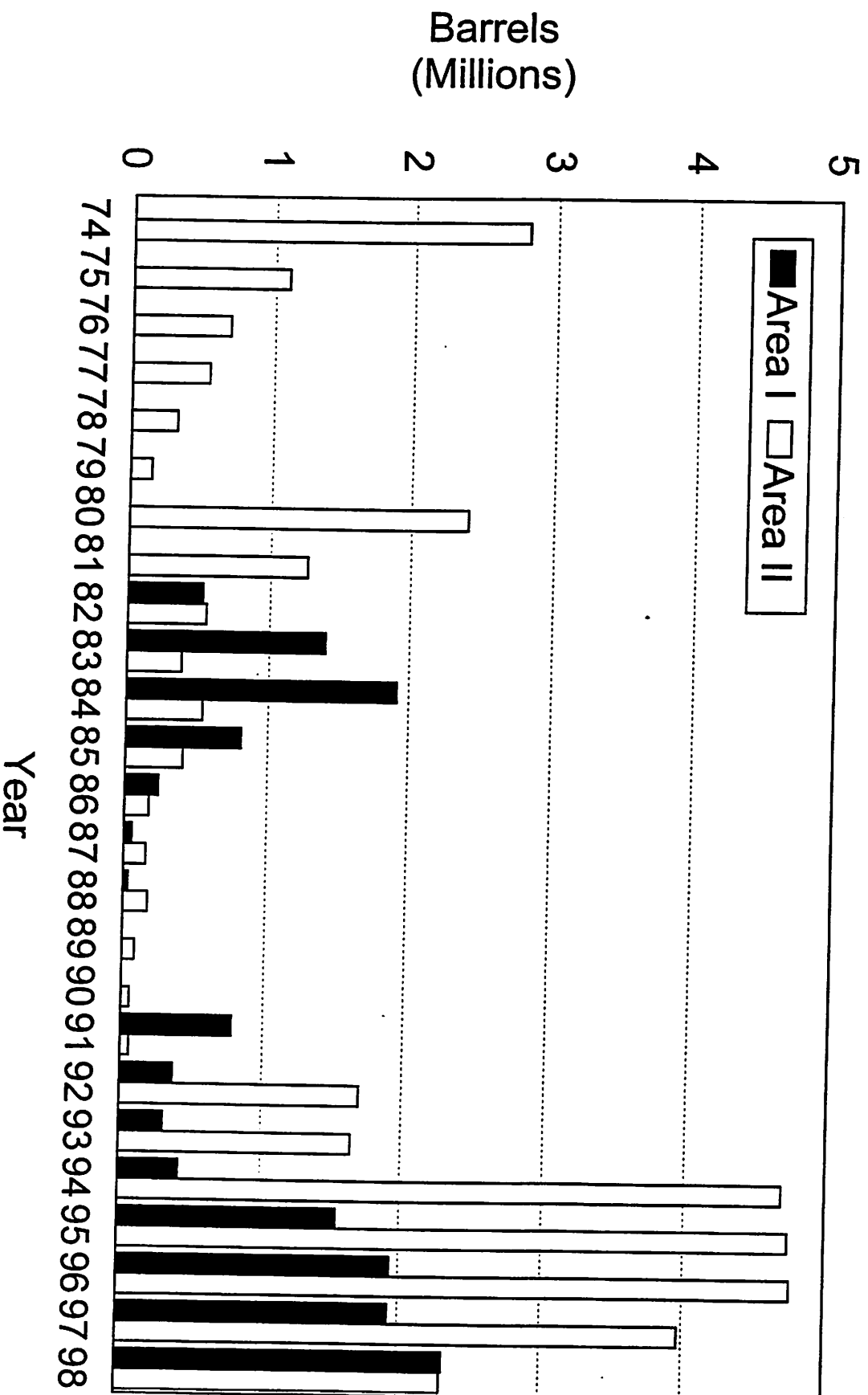
April 1998







Oysters Available on the Public Grounds East of the Mississippi River (Seed and Sack Oysters Combined)



COASTAL STUDY AREA III
RANDY PAUSINA

[illegible]

Hackberry Bay Square Meter Samples July 1, 1998

July 1, 1998	OYSTERS						
Hackberry Bay square meters		Mid Hackberry Bay			Lower Hackberry Bay		
mm	work groups	1	2	3	1	2	3
0-4	0						
5-9	1						
10-14	2		2				
15-19	3	1	1				
20-24	4		4	6			
25-29	5	15	6	3	5	1	
30-34	6	11	11	7	10	2	
35-39	7	7	6	5	12	4	1
40-44	8	6	9	6	7	1	1
45-49	9	4	1	4	8	4	4
50-54	10	1	2	2	2	1	
55-59	11		1		5	3	3
60-64	12		2		2	2	
65-69	13	1		1	3		1
70-74	14			1	4	1	
75-79	15	1	1		3	4	
80-84	16				4	3	2
85-89	17		1		4		1
90-94	18					1	
95-99	19						1
100-104	20						
105-109	21						1
110-114	22						
sub totals		47	47	35	69	27	15
totals			129			111	
ave			43			37	
tot =>1"		46	40	29	69	27	15
tot			115			111	
ave =>1"			38.3333333			37	

Hackberry Bay Square Meter Samples July 1, 1998

Cultch site	OYSTERS	<i>TOTALS</i>			
	spat	seed	sack	total	
Concrete	69	753	51	873	
Steamed	69	549	21	639	
Reef	0	17	12	29	
Mixed	7	75	21	103	
Kent. Lime	30	234	4	268	
Bahamian L	52	367	11	430	
sub tot	227	1995	120		2342
				2342	
Other Sites					
Mid	14	112	3	129	
Lower	0	87	24	111	
sub tot	14	199	27		240
				240	
grand tot	241	2194	147	2582	

Hackberry Bay Square Meter Samples July 1, 1998

Oysters								
ave no of oysters per size per station								
	concrete	steam	reef	mix	kent	baham	mid	lower
spat	23.0	23.0	0.0	2.3	10.0	17.3	4.7	0.0
seed	251.0	183.0	5.7	25.0	78.0	122.3	37.3	29.0
sack	17.0	7.0	4.0	7.0	1.3	3.7	1.0	8.0
total	291.0	213.0	9.7	34.3	89.3	143.3	43.0	37.0

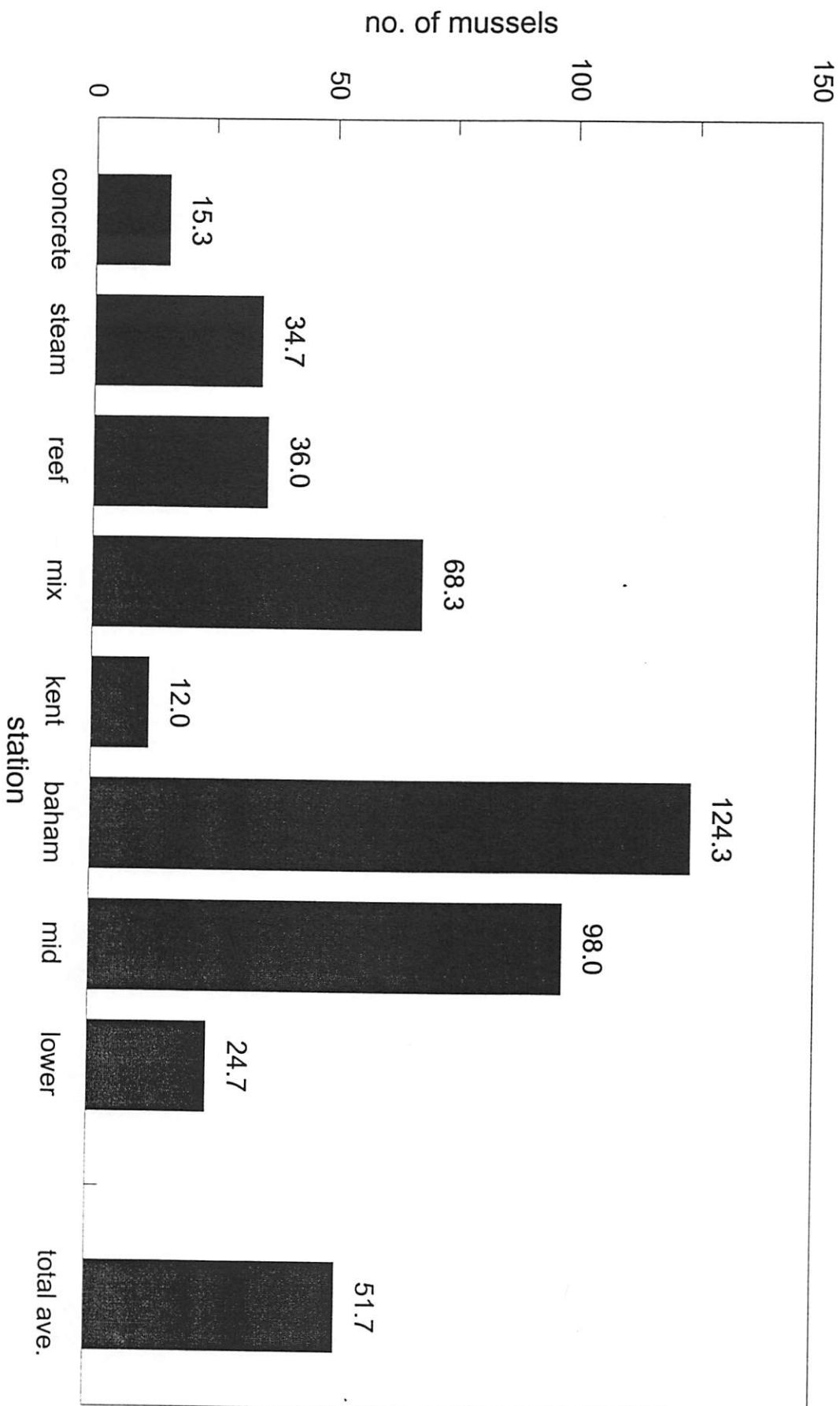
Hackberry Bay Square Meter Samples July 1, 1998

Mussels		Mid Hackberry Bay			Lower Hackberry Bay		
mm	work groups	1	2	3	1	2	3
0-4	0						
5-9	1	55	136	57	10	12	5
10-14	2	9	24	3	12	4	5
15-19	3	6	1	1	8	2	2
20-24	4	2			5	1	2
25-29	5					1	
30-34	6				1		1
35-39	7					2	
40-44	8					1	
45-49	9						
50-54	10						
	sub totals	72	161	61	36	23	15
	totals		294			74	
	ave		98			24.66667	
		tot. in low &	368				
		ave	184				

Hackberry Bay Square Meter Samples July 1, 1998

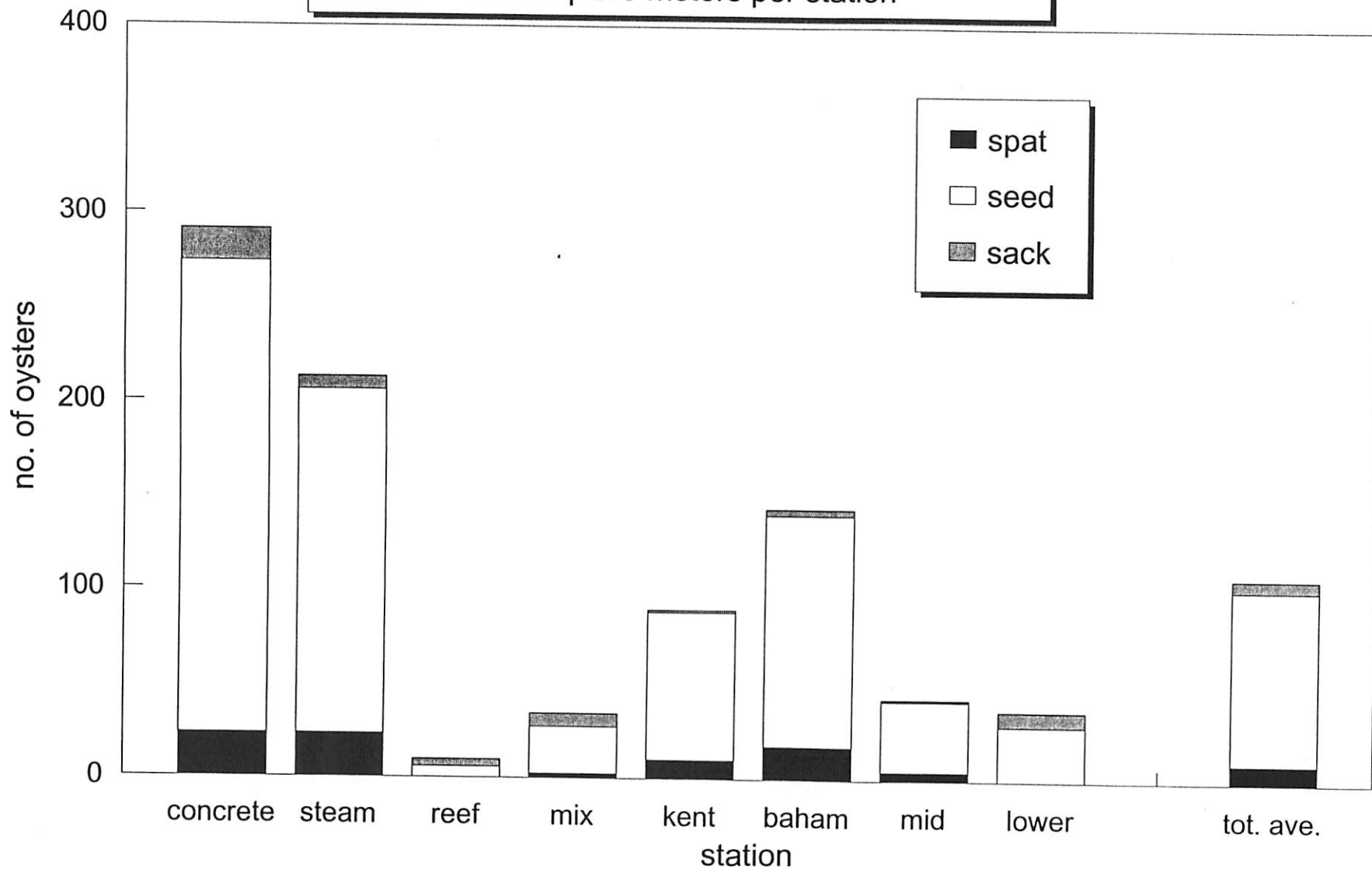
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Ave. no. of mussels per station
three square meters per stations



Ave. no. of oysters per station

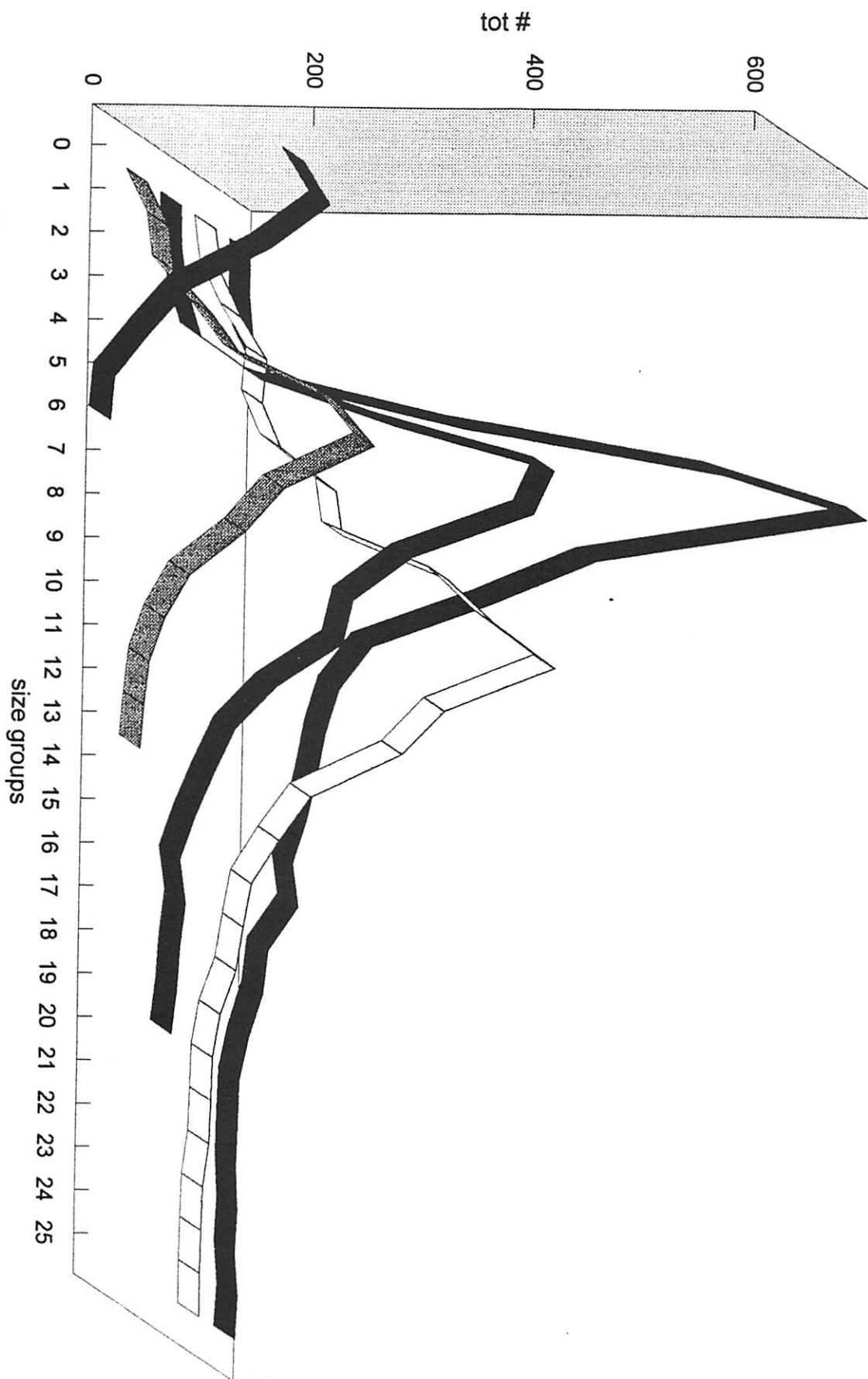
three square meters per station



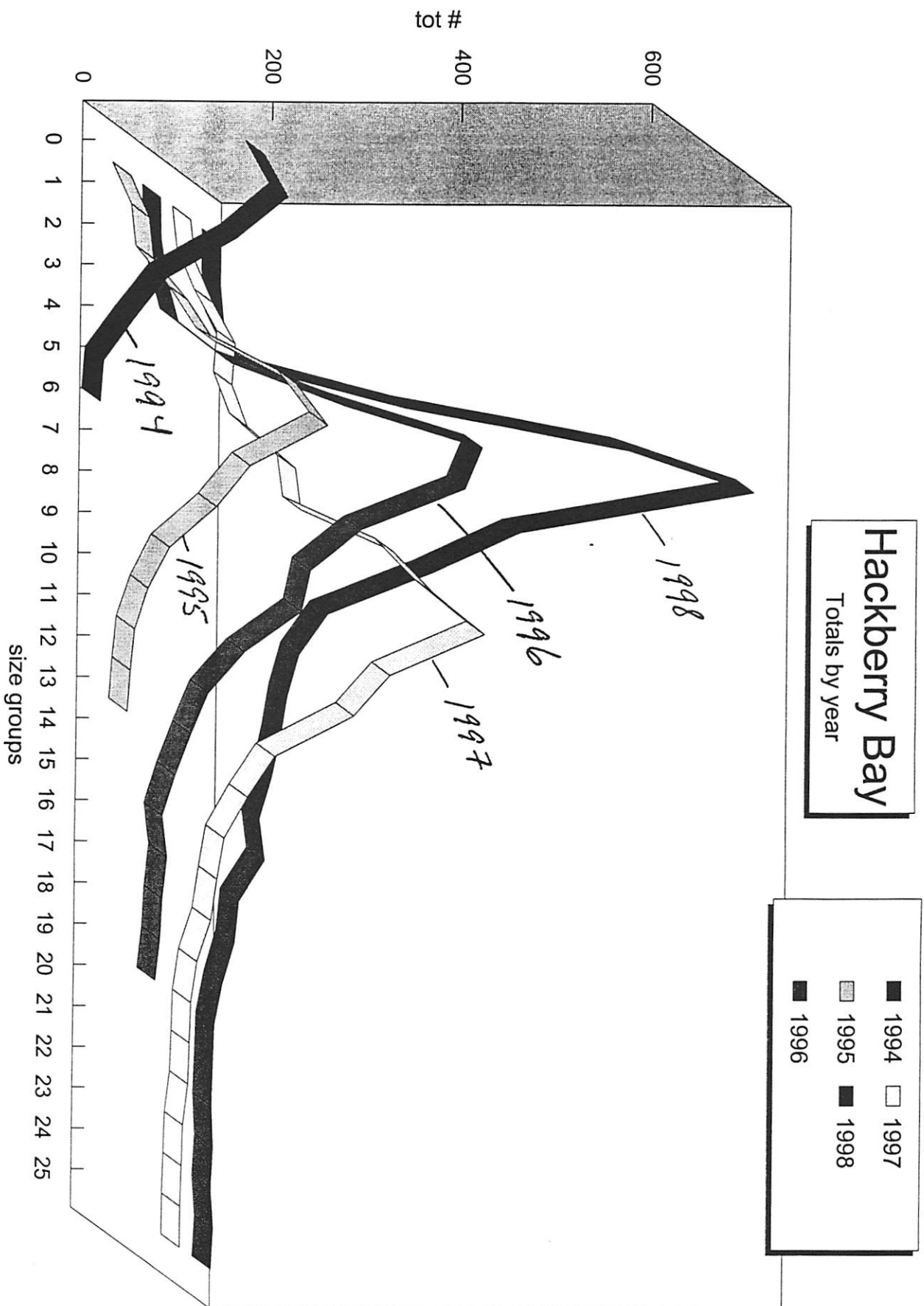
Hackberry Bay

Totals by year

■ 1994 □ 1997
 ▨ 1995 ■ 1998
 ■ 1996



Hackberry Bay Square Meter Samples July 1, 1998



HACKBERRY BAY

37.3
1.0

AREA 3

M² 1998

S=SPAT

SEED

SACK

M=MUSSELS



29.0
8.0

COASTAL STUDY AREA V
MARTY BOURGEOIS
PAUL MEIER



James H. Jenkins, Jr.
Secretary

Department of Wildlife & Fisheries
Post Office Box 189
Bourg, Louisiana 70343
(504)594-4139

M.J. "Mike" Foster, Jr.
Governor

July 21, 1998

Memorandum

TO: Ron Dugas, Programs Manger

FROM: Martin Bourgeois and Paul Meier, CSA-V

SUBJECT: CSA-V Oyster Meter Square Samples/1998 Stock Assessment

With assistance from Coastal Study Area III personnel, all oyster meter square field sampling was completed on July 15, 1998. A total of 14 stations, 9 in Sister Lake (including the 1994 and 1995 shell plants) and 5 in Bay Junop were sampled with one replicate made at each station.

The stock assessment conducted in Sister Lake indicates an overall decline in stocks from 1997 levels (see tables and figures), as expected following the level of fishing effort generated over three successive fishing seasons. With the exception of the Camp 1995 shell plant and to a lesser extent the South 1994 shell plant, all shell plants as well as reefs in Sister Lake experienced significant stock declines. Stock assessments conducted in 1998 for Sister Lake shell plants (combined acreage) indicate 193,992 barrels of seed and 269,946 barrels of sack oysters available for harvest, declines from 1997 levels of 52% and 37%, respectively. Likewise, stock level for reef acreage in Sister Lake indicates 104,983 barrels of seed and 57,179 barrels of sack oysters available for harvest, declines of 23% and 57%, respectively, from 1997 levels. The ratio of sack to seed oyster availability, although largely erratic between years, corresponds well to 1997 rates.

While stock levels in Sister Lake have declined from 1997 levels, stock size has increased in Bay Junop over the same period. The 1998 stock assessment conducted in Bay Junop indicates 52,340 barrels of seed and 90,787 barrels of sack oysters available for harvest, respective increases of 67% and 68% from 1997 levels. The relative ratio between sack and seed oyster availability in Bay Junop corresponds well to trends of previous years.

A minimum of 20 hooked mussels were measured (5 mm working group intervals) and total

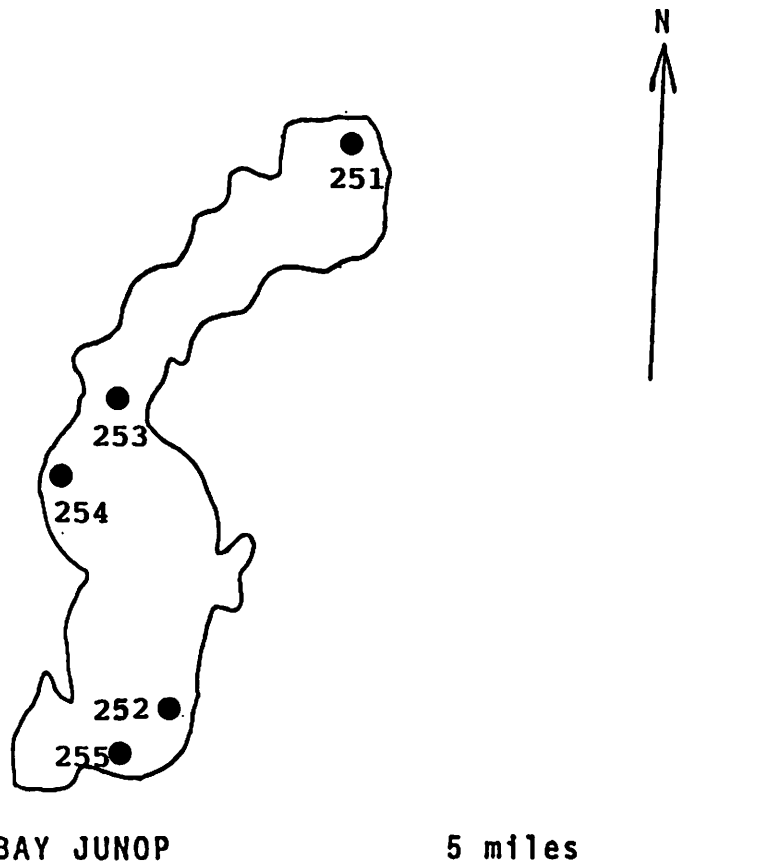
number recorded from all samples and replicates. Interestingly, as was noted in CSA-II's 1997 stock assessment, areas of highest mussel infestation levels directly corresponded to areas of greatest oyster density (Sister Lake/Camp 1995 shell plant and Bay Junop @ Hell Hole Bayou). Additionally, our observations indicate that highest mussel infestations were associated with clustered oysters.

Both salinity and water temperature remain within seasonal norms in Sister Lake and Bay Junop.

Approximately 30 oysters from both North and South Sister Lake and Bay Junop were forwarded to Dr. Tom Soniat at NSU for "dermo" level analysis.

Tables and figures depicting the 1998 Sister Lake and Bay Junop stock assessments are presented as follows.

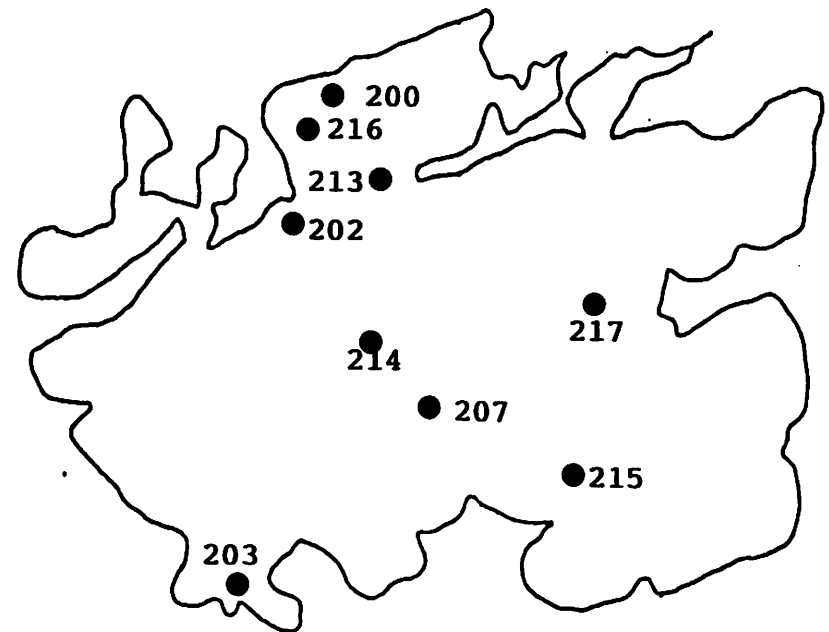
COASTAL STUDY AREA 5 METER SQUARE SAMPLE STATIONS



BAY JUNOP

Station Location

- 251 = Buckskin Bayou
- 252 = Rat Bayou
- 253 = Mid Bay Junop
- 254 = Hell Hole Bayou
- 255 = Bayou de West



SISTER LAKE

Station Location

- 200 = Grand Pass
- 202 = Walker's Point
- 203 = Old Camp
- 207 = Mid Sister Lake
- 213 = North 1994 Shell Plant
- 214 = Mid 1994 Shell Plant
- 215 = South 1994 Shell Plant
- 216 = North 1995 Shell Plant
- 217 = Camp 1995 Shell Plant

1998 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
200	221.58	896,734.26	18.0	2.0	22,418.4	4,981.9
202	81.93	331,570.71	61.5	16.5	28,321.7	15,197.0
203	151.31	612,352.00	11.0	1.5	9,355.4	2,551.5
207	185.72	751,608.84	43.0	16.5	44,887.8	34,448.7
TOTALS					104,983.3	57,179.1

1998 OYSTER AVAILABILITY
1994 COASTAL STUDY AREA V SHELL PLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# METER ²	# OYSTERS	BARRELS SEED
North	96	388,512	24.0	12,950.4
Mid	129	522,063	4.0	2,900.4
South	81	327,807	12.0	5,463.5
TOTAL				21,314.3

SACK OYSTERS

SHELLPLANT	ACRES	# METER ²	# OYSTERS	BARRELS SACK
North	96	388,512	26.5	28,598.8
Mid	129	522,063	8.0	11,601.4
South	81	327,807	11.0	10,016.3
TOTAL				50,216.5

1998 OYSTER AVAILABILITY
1995 COASTAL STUDY AREA V SHELL PLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# METER ²	# OYSTERS	BARRELS SEED
North	115	465,405	31.0	20,038.3
Camp	438	1,772,586	62.0	152,639.4
TOTAL				172,677.7

SACK OYSTERS

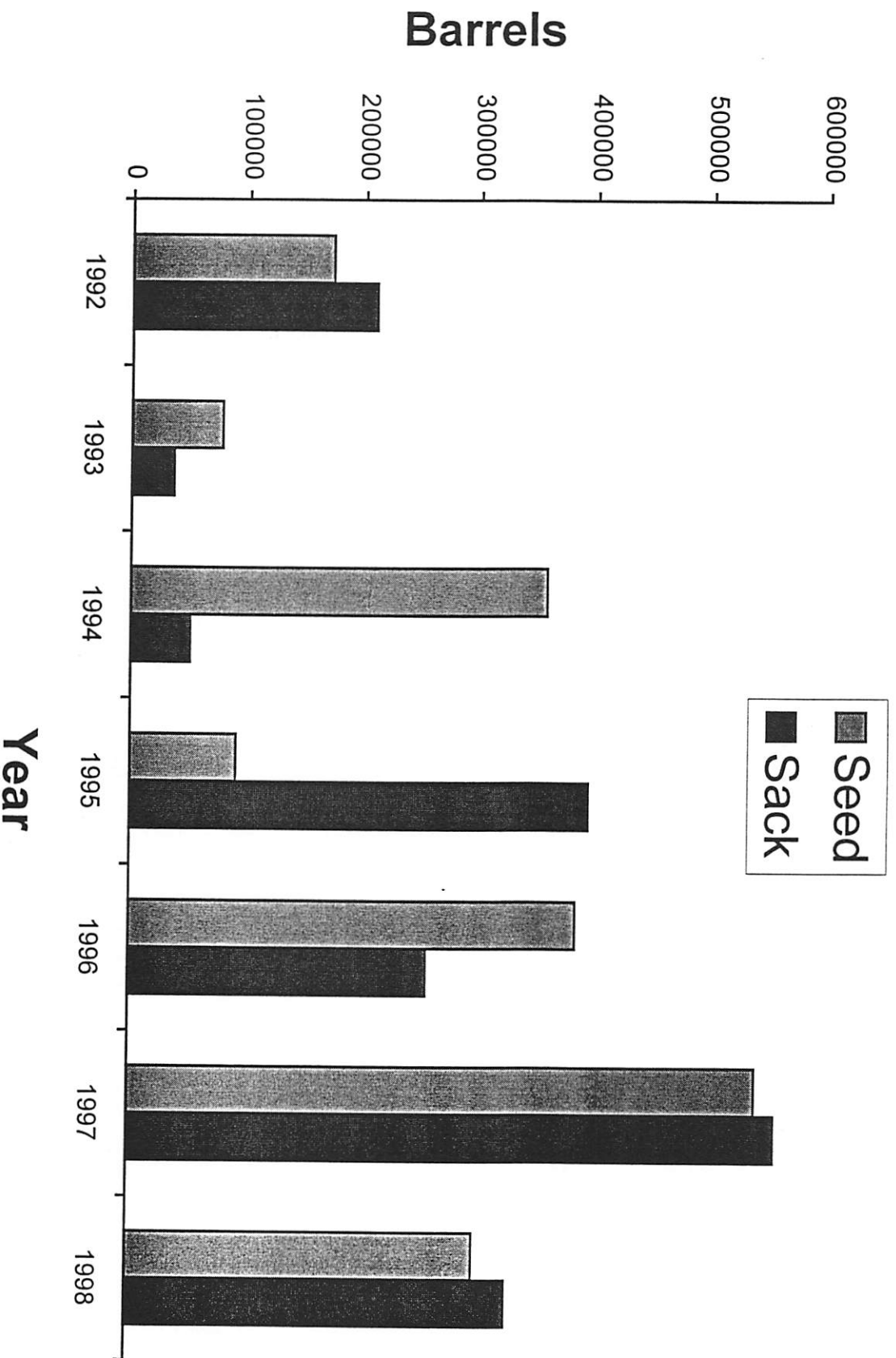
SHELLPLANT	ACRES	# METER ²	# OYSTERS	BARRELS SACK
North	115	465,405	10.0	12,927.9
Camp	438	1,772,586	42.0	206,801.7
TOTAL				219,729.6

1998 BAY JUNOP OYSTER AVAILABILITY

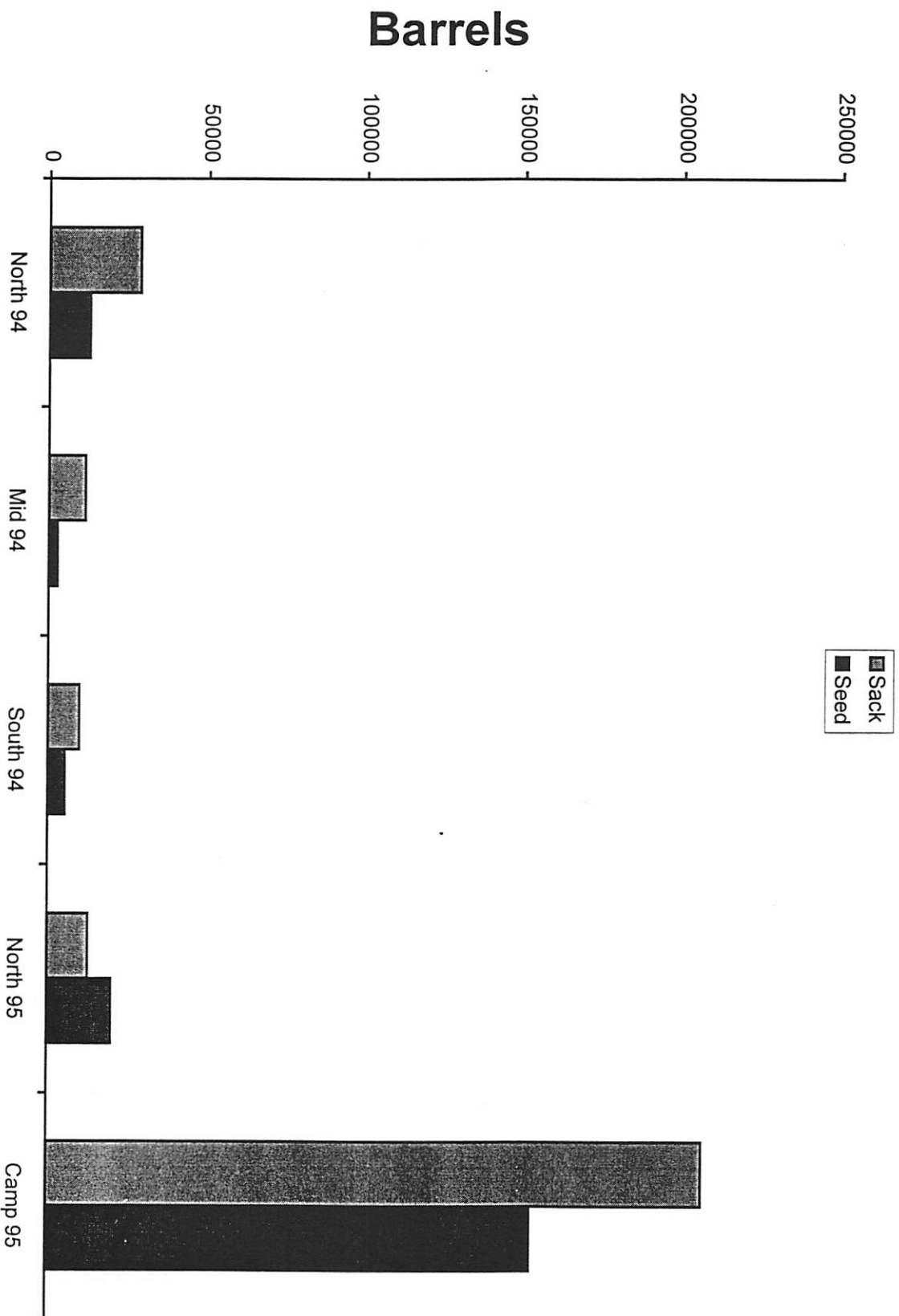
METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
251	17.2	69,608.40	3.0	8.5	290.0	1,643.5
252*	67.36	272,605.92	45.8	17.5	17,340.8	13,251.7
253	73.26	296,483.22	33.5	15.0	13,794.7	12,353.5
254	94.20	381,227.40	39.5	60.0	20,914.6	63,537.9
255*						
TOTALS					52,340.1	90,786.6

* Stations 252 and 255 are combined.

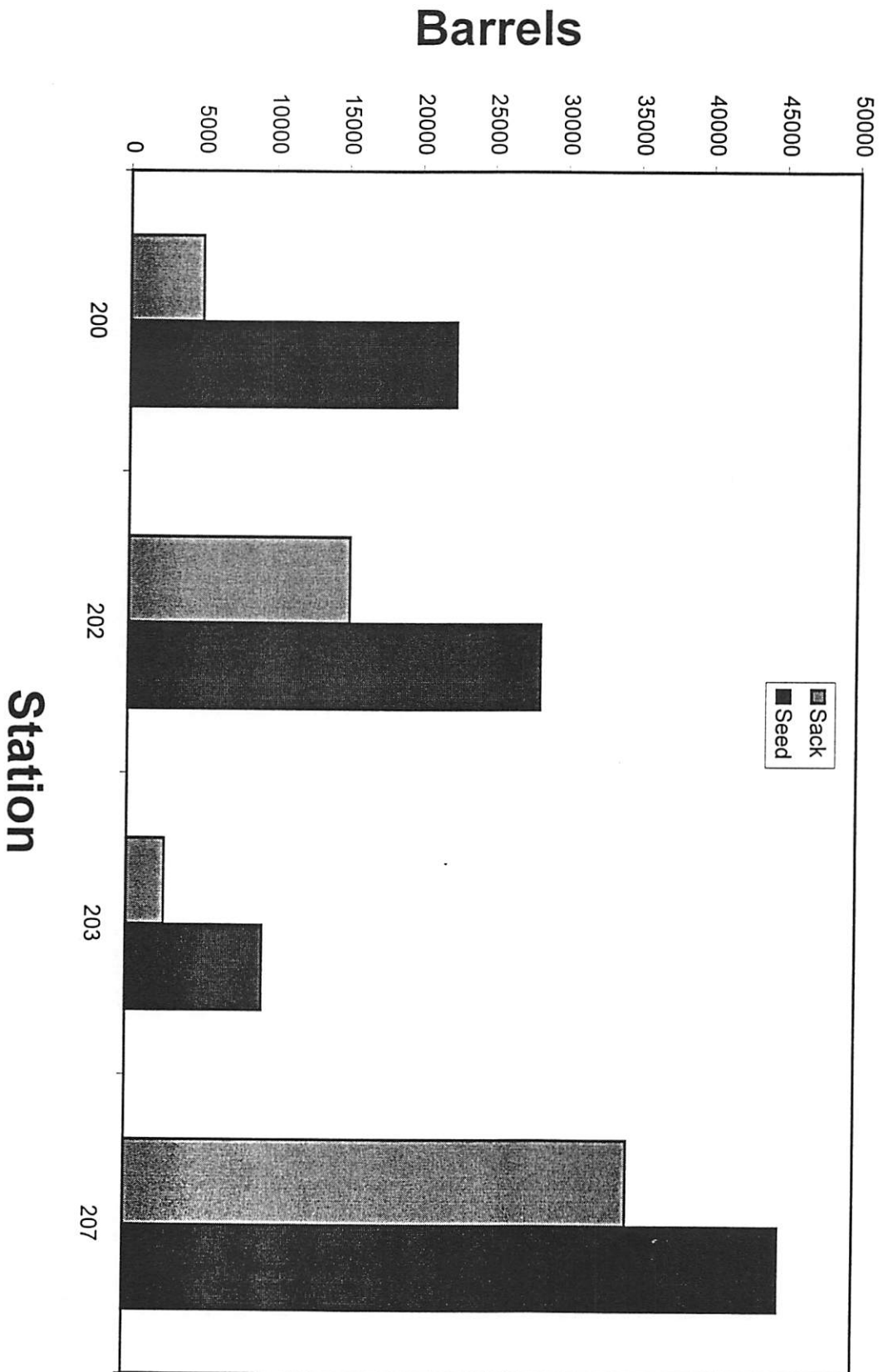
OYSTER AVAILABILITY SISTER LAKE



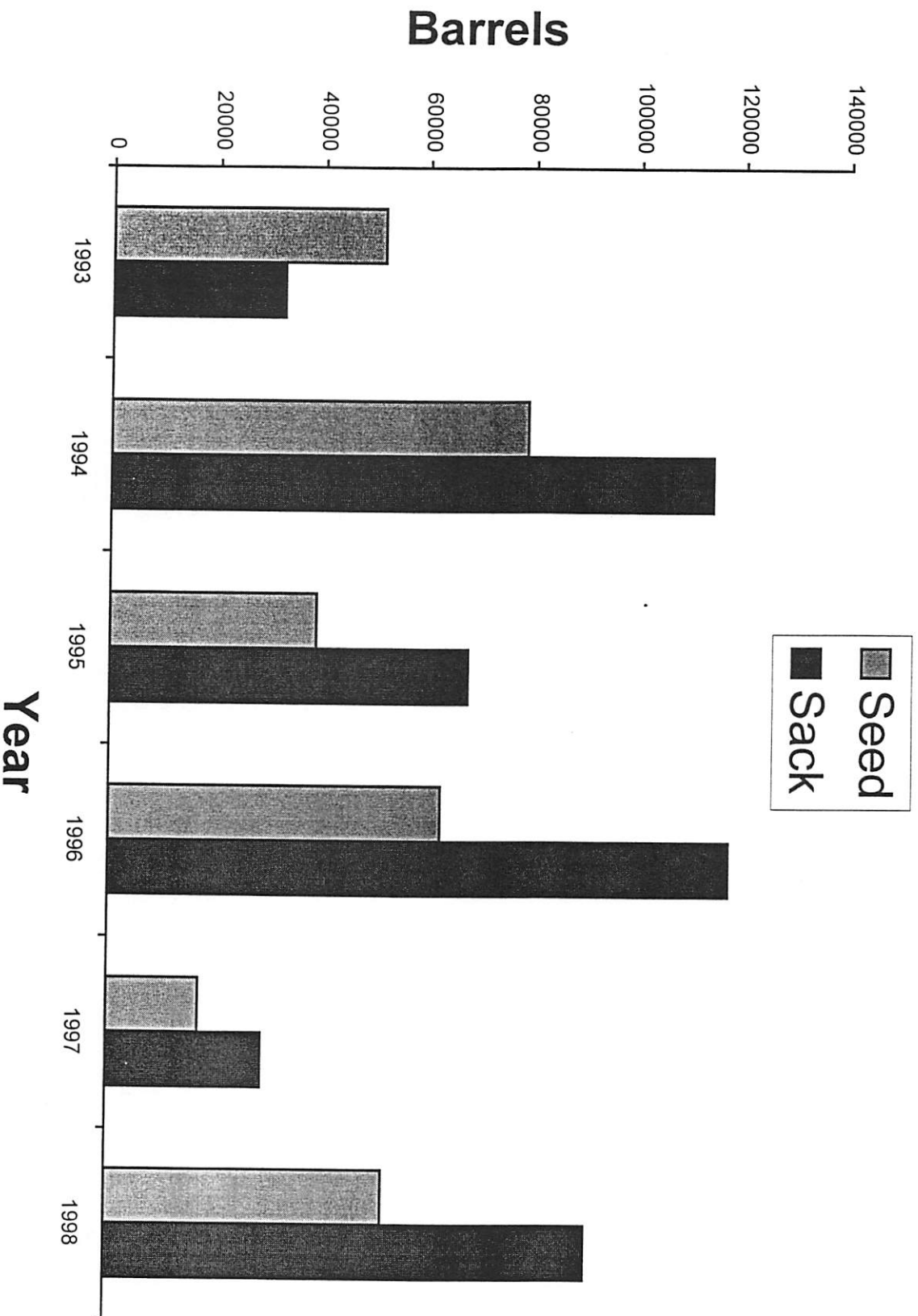
OYSTER AVAILABILITY SISTER LAKE SHELL PLANTS



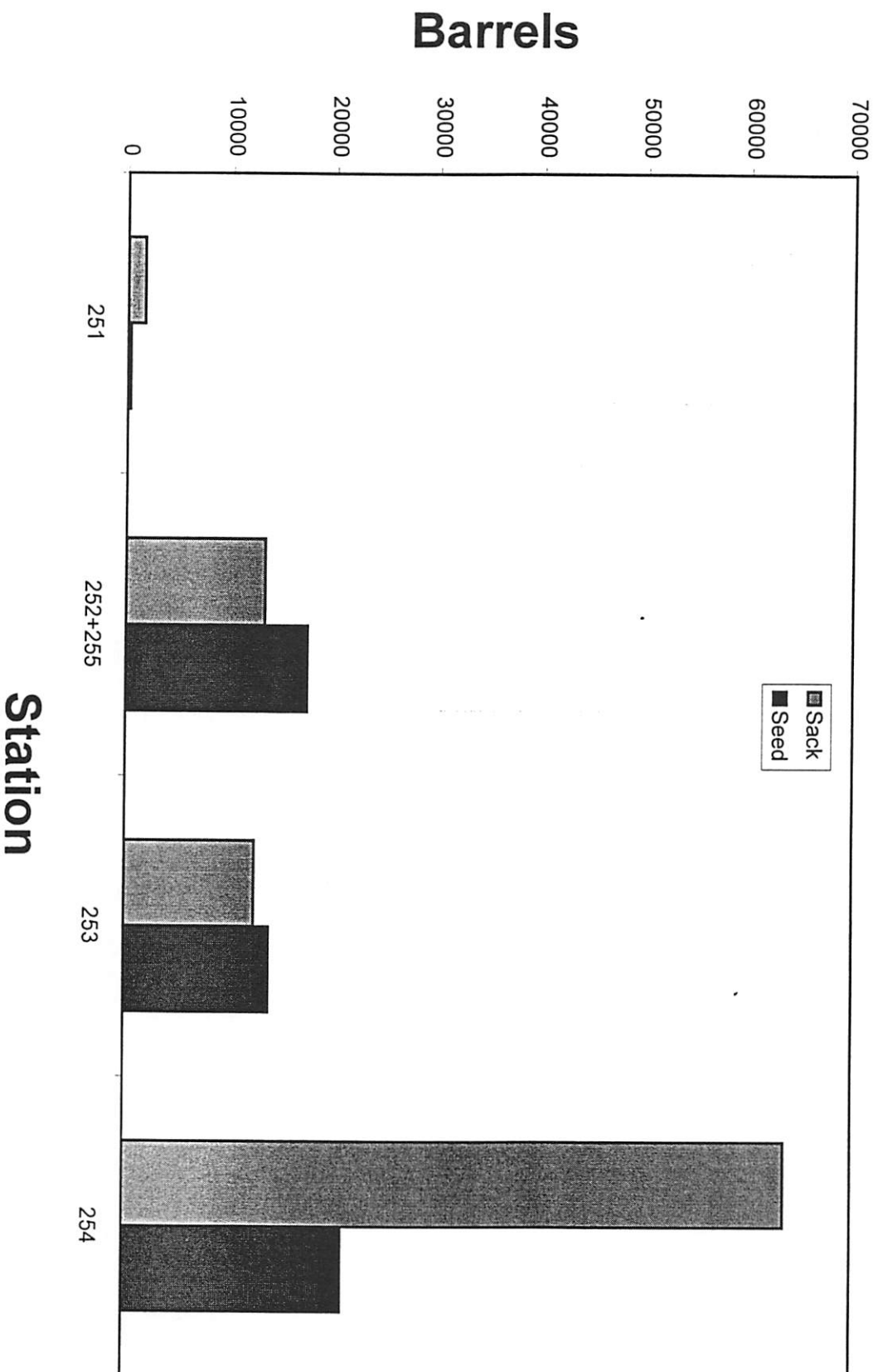
OYSTER AVAILABILITY SISTER LAKE REEFS



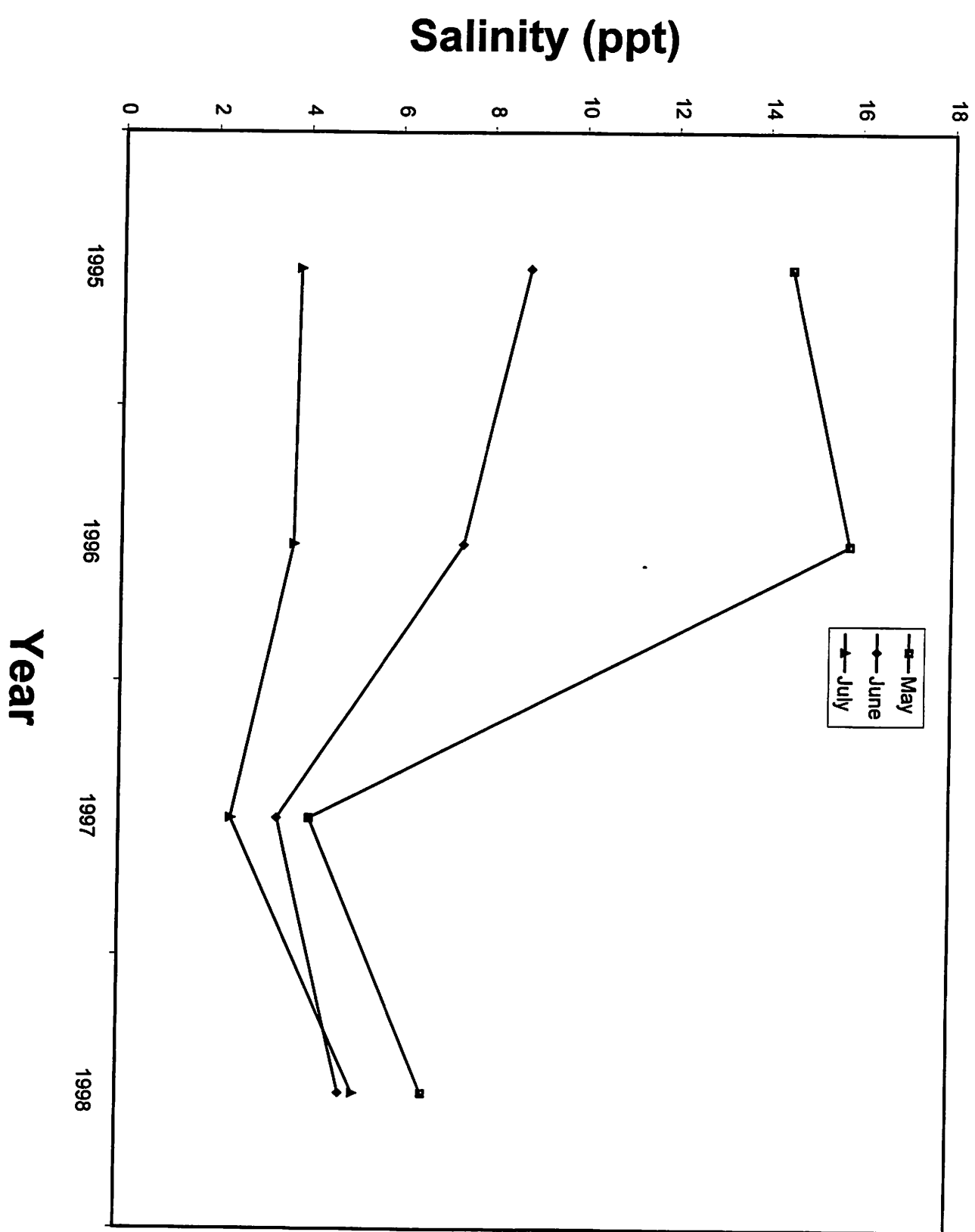
OYSTER AVAILABILITY BAY JUNOP



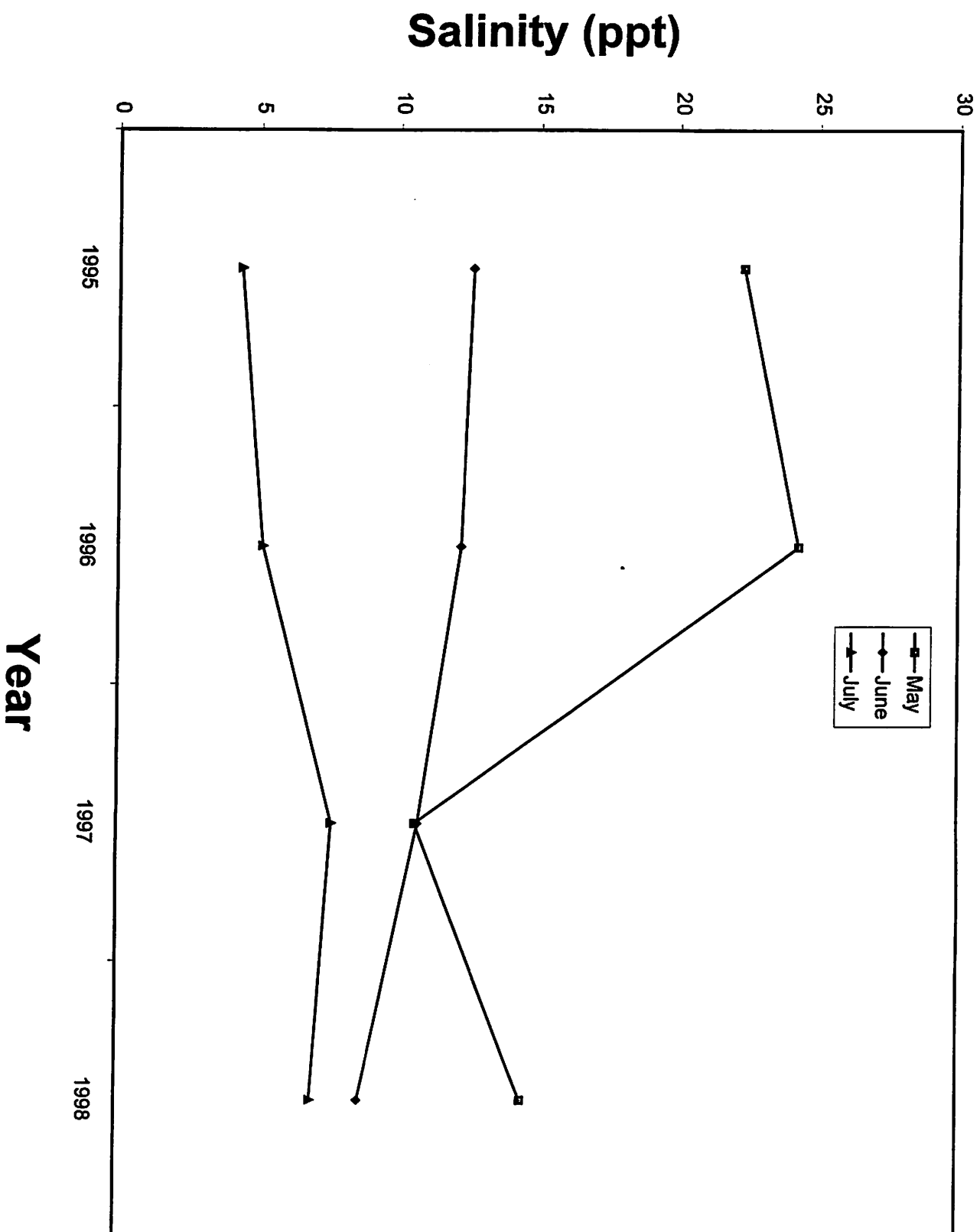
OYSTER AVAILABILITY BAY JUNOP REEFS



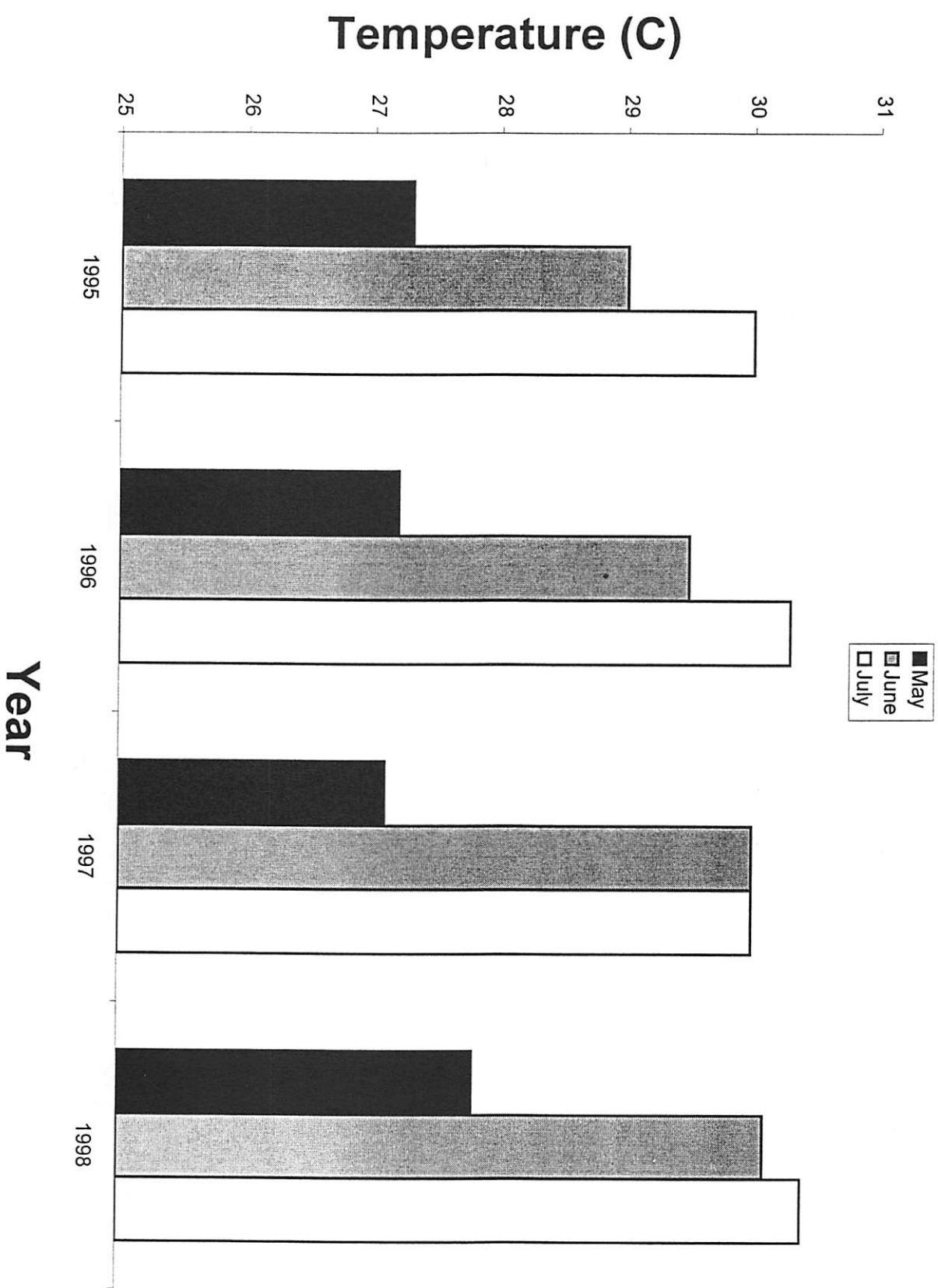
NORTH SISTER LAKE SALINITY



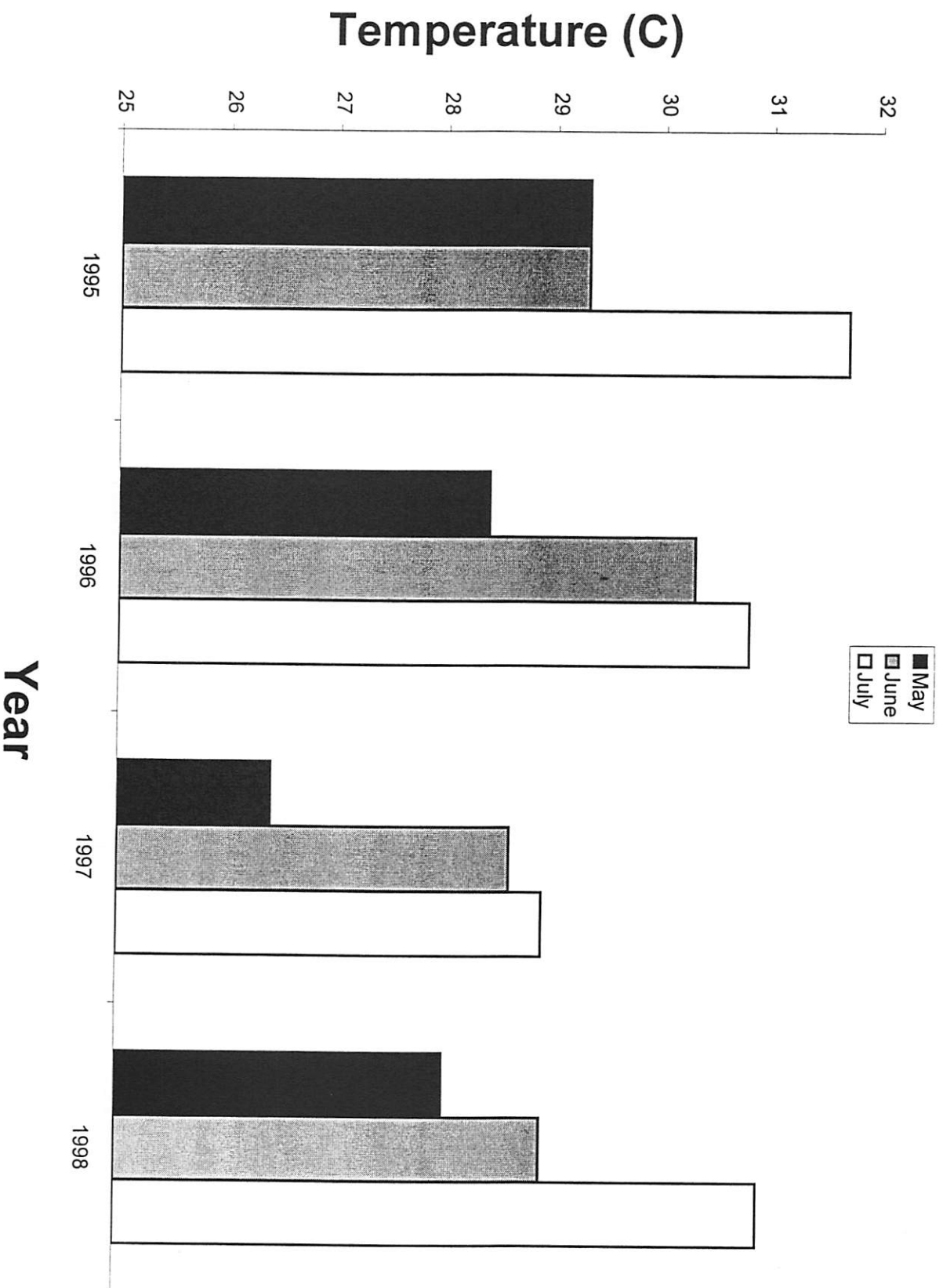
BAY JUNOP SALINITY



SISTER LAKE WATER TEMPERATURE



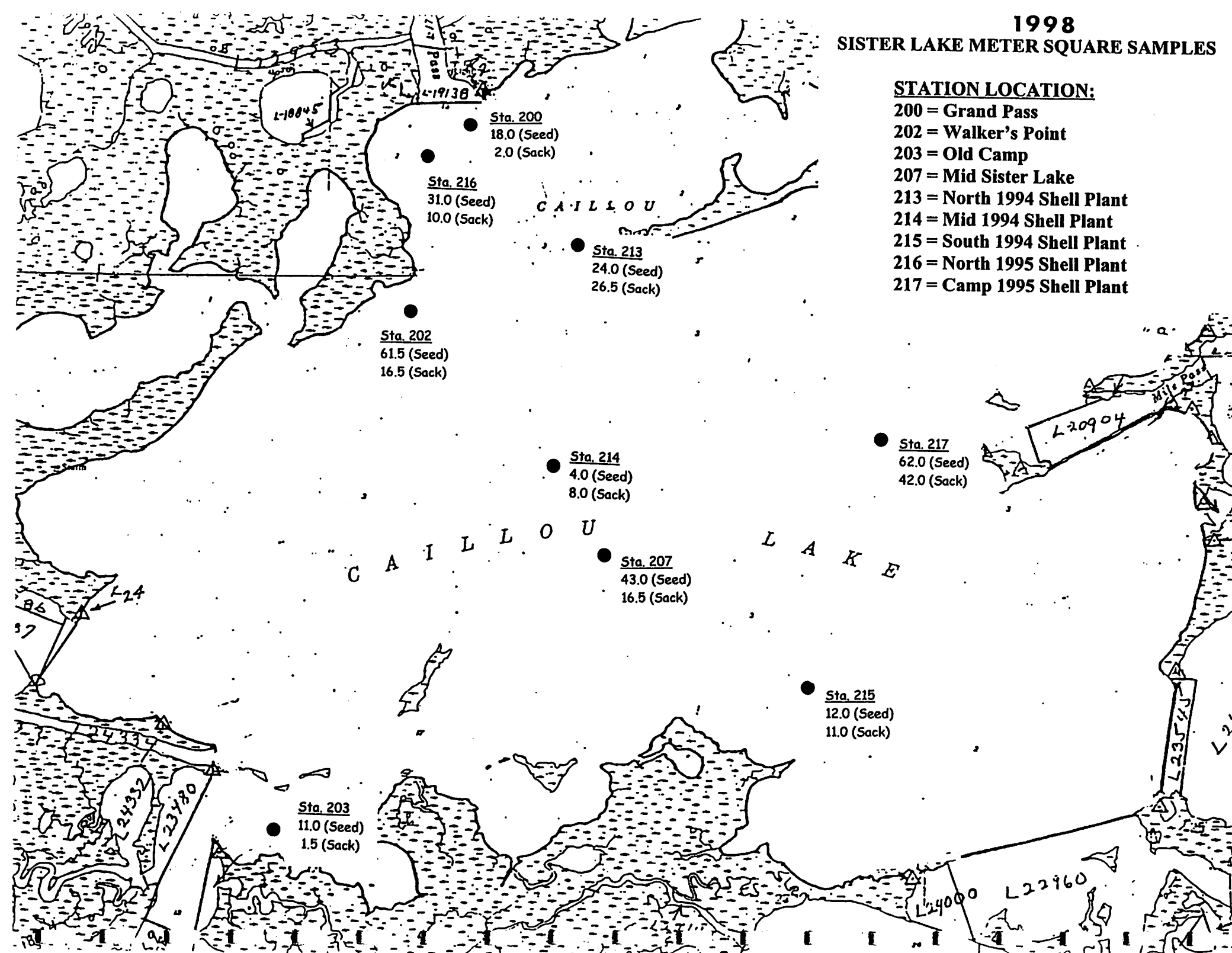
BAY JUNOP WATER TEMPERATURE



1998
SISTER LAKE METER SQUARE SAMPLES

STATION LOCATION:

200 = Grand Pass
202 = Walker's Point
203 = Old Camp
207 = Mid Sister Lake
213 = North 1994 Shell Plant
214 = Mid 1994 Shell Plant
215 = South 1994 Shell Plant
216 = North 1995 Shell Plant
217 = Camp 1995 Shell Plant

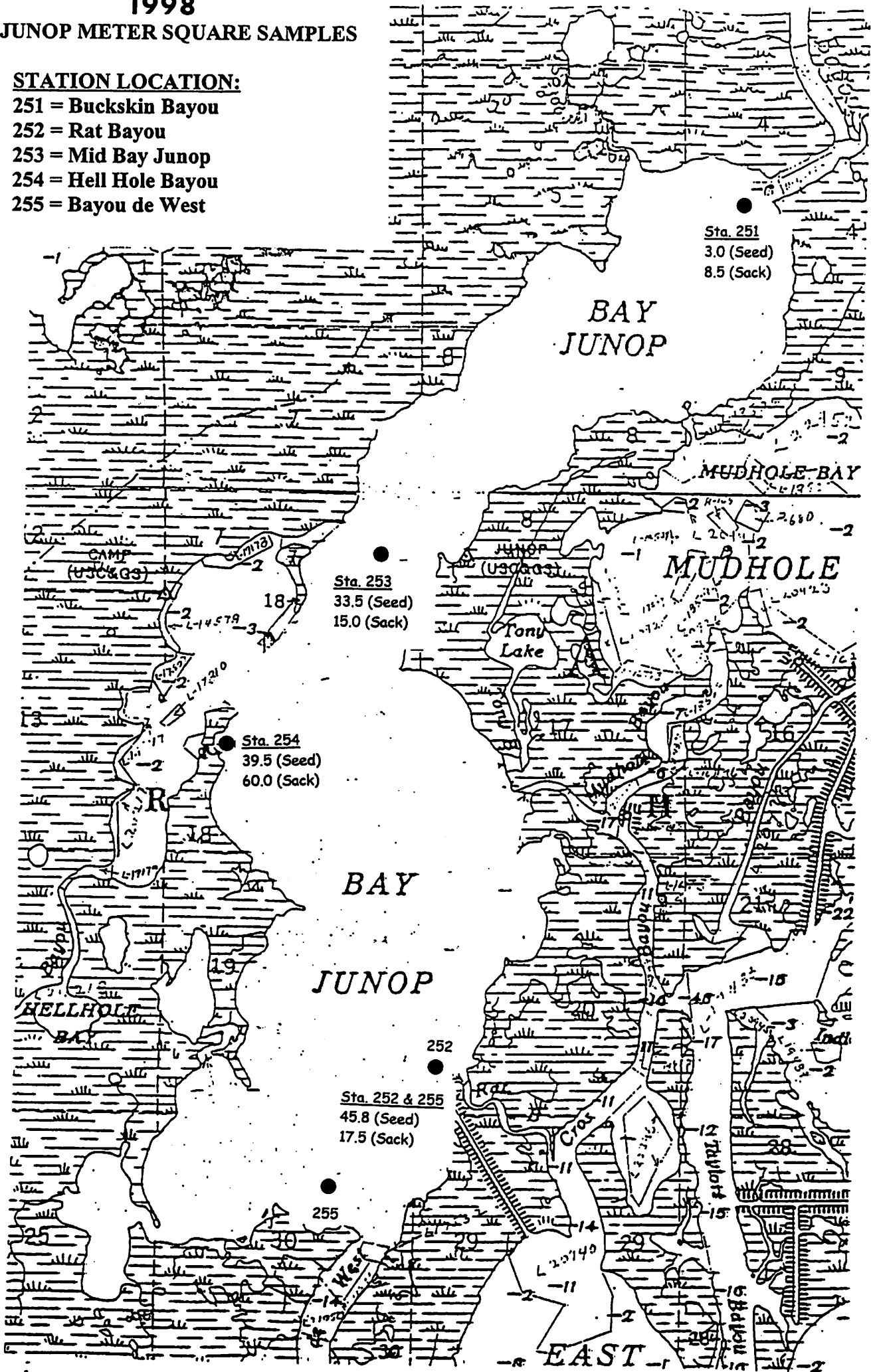


1998

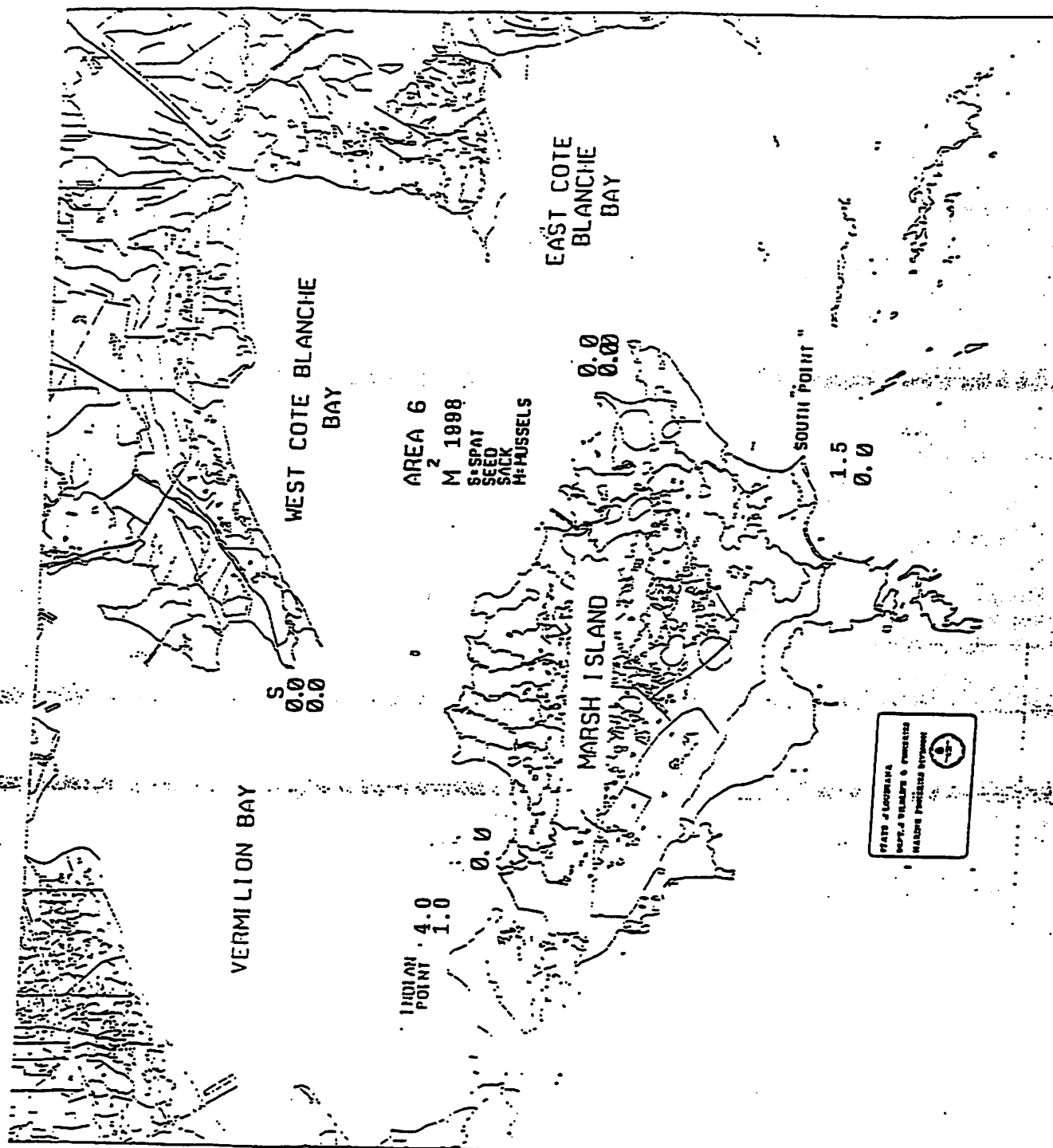
BAY JUNOP METER SQUARE SAMPLES

STATION LOCATION:

- 251 = Buckskin Bayou
- 252 = Rat Bayou
- 253 = Mid Bay Junop
- 254 = Hell Hole Bayou
- 255 = Bayou de West



COASTAL STUDY AREA VI
PETE JUNEAU



COASTAL STUDY AREA VII
DUDLEY CARVER

OYSTER PRODUCTION IN CALCASIEU LAKE

AUGUST 1998

OYSTER NUMBERS

WESTSIDE					EASTSIDE				
SIZE	STATION			AVE.	SIZE	STATION			AVE.
	4	5	6			1	2	3	
> 3"	24	17	42	13.8	> 3"	71	37	24	22.0
1-3"	30	35	66	21.8	1-3"	69	43	43	25.8

OYSTER PRODUCTION AREA

WESTSIDE	EASTSIDE
2,942,076.67 SQ. METERS	3,901,185.57 SQ. METERS

PRODUCTION OF > 3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	40,600,658.046	OYSTERS:	85,826,082.540
SACKS:	225,559.2	SACKS:	476,811.6
TOTAL SACKS OF > 3" OYSTERS:		702,370.8	

PRODUCTION OF 1-3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	64,137,271.406	OYSTERS:	100,650,587.706
SACKS:	178,159.1	SACKS:	279,585.0
TOTAL SACKS OF 1-3" OYSTERS:		457,744.1	

TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1,160,114.9
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COMMISSION ACTION & ORDERS

RESOLUTION

1998/99 Season on the Public Oyster Grounds
Adopted by the
Louisiana Wildlife and Fisheries Commission
August, 1998
Louisiana Department of Wildlife and Fisheries

WHEREAS, R.S. 56:433 provides that the Public Oyster Seed Grounds may be opened on the Wednesday following Labor Day which in 1998 is September 9, and

WHEREAS, the oyster resources on the "Public Oyster Seed Grounds and Oyster Seed Reservation" have been surveyed and the available supply and size variation has been determined, and

WHEREAS, Act #46 of the 1992 Legislative Session changed R.S. 56:433B to mandate a sacking area only on the Public Grounds east of the Mississippi River inclusive of Plaquemines and St. Bernard Parishes

THEREFORE BE IT RESOLVED, that the Louisiana Public Oyster Seed Grounds, Bay Gardene, Hackberry Bay, and Bay Junop Oyster Seed Reservations not currently under lease will open one-half hour before sunrise on September 9, 1998, and

BE IT FURTHER RESOLVED, that the Sister Lake Oyster Seed Reservation will be open for 12 days only from ½ hr. before sunrise October 5, 1998 to ½ hr. after sunset October 16, 1998, and

BE IT FURTHER RESOLVED, that the sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Pt. to Pt. Gardner to Grace Pt. at the Mississippi River Gulf Outlet.

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action if necessary, to close areas if oyster mortalities are occurring or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads, and

BE IT FURTHER RESOLVED, that the Secretary will also have the authority to take emergency action to reopen areas previously closed if the threat to the resource has ended, and

BE IT FURTHER RESOLVED, that the season for Calcasieu and Sabine Lake tonging areas will open one-half hour before sunrise on October 16, 1998 and remain open until one-half hour after sunset on April 30, 1999.

BE IT FURTHER RESOLVED, that the notice of any opening, delaying or closing of a season will be made by public notice at least 72 hours prior to such action.

Thomas M. Gattle, Jr.
Chairman, La. Wildlife and
Fisheries Commission

James H. Jenkins, Jr.
Secretary, La. Department of
Wildlife and Fisheries

DECLARATION OF EMERGENCY

Department of Wildlife and Fisheries Wildlife and Fisheries Commission

In accordance with the emergency provisions of the Administrative Procedure Act, R.S. 49:953 (B) and 967, and under the authority of R.S. 56:433 and R.S. 56:535.1 notice is hereby given that the Secretary of the Department of Wildlife and Fisheries and the Wildlife and Fisheries Commission hereby declares:

1. The Public Oyster Seed Grounds not currently under lease, Bay Junop, Bay Gardene Oyster and Hackberry Bay Oyster Seed Reservations will open one-half hour before sunrise September 9, 1998.

2. The Sister Lake Oyster Seed Reservation will be open for 12 days only from October 5 to October 16, 1998.

3. A designated sacking only area east of the Mississippi River will open one-half hour before sunrise on September 9, 1998. The sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Pt. to Pt. Gardner to Grace Pt. at the Mississippi River Gulf Outlet.

4. The Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action if necessary, to close areas if oyster mortalities are occurring or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads.

5. The Secretary is authorized to take emergency action to reopen areas previously closed if the threat to the resource subsides.

6. The Calcasieu and Sabine Lake tonging areas will open one-half hour before sunrise on October 16, 1998 and remain open until one-half hour after sunset on April 30, 1999.

7. Notice of any opening, delaying or closing of a season will be made by public notice at least 72 hours prior to such action.

Thomas M. Gattle, Jr.
Chairman

The Commission also hereby sets the closing date for the 1997 Fall Inshore Shrimp Season at official sunset Sunday, December 14, 1997 except in Breton and Chandeleur Sounds in Zone 1, as described in R.S. 56:495.1 A.(2), which shall remain open until 6:00 a.m., April 1, 1998. The Commission also grants authority to the Secretary of the Department of Wildlife and Fisheries to change the closing date if biological and technical data indicate the need to do so or if enforcement problems develop.

Daniel J. Babin
Chairman

Mr. Ron Dugas presented the Declaration of Emergency to Set Oyster Season. The public oyster grounds in Louisiana have been inventoried and Mr. Dugas felt there would be a good supply. The staff was recommending to open the oyster season on September 3 as prescribed by law. The Plaquemine Oyster Association, the Terrebonne Oyster Association and the Oyster Task Force have expressed their support for the September 3 opening. The Bay Junop Oyster Seed Reservation will remain closed whereas Sister Lake will open this year. The Calcasieu Lake will open on October 16 which will give the fishermen the maximum window available to harvest the resource. Mr. Dugas then read the Therefore Be It Resolved portion of the Resolution. Commissioner McCall made a motion to accept the Resolution, it was seconded by Commissioner Gisclair and passed with no opposition. Chairman Babin stated the oyster lease moratorium was scheduled to be lifted in January 1998. The Department planned to present to the Commission the process to be used to lift the moratorium at the September Commission Meeting.

(The full text of the Resolution and Declaration of Emergency is made a part of the record.)

RESOLUTION

1997/98 Season on the Public Oyster Grounds
Adopted by the
Louisiana Wildlife and Fisheries Commission
August, 1997
Louisiana Department of Wildlife and Fisheries

WHEREAS, R.S. 56:433 provides that the Public Oyster Seed Grounds may be opened on the Wednesday following Labor Day, which in 1997 is September 3, and

WHEREAS, the oyster resources on the "Public Oyster Seed Grounds and Oyster Seed Reservation" have been surveyed and the available supply and size variation has been determined, and

WHEREAS, Act #46 of the 1992 Legislative Session changed R.S. 56:433B to mandate a sacking only area on the Public Grounds east of the Mississippi River inclusive of Plaquemines and St. Bernard Parishes,

THEREFORE BE IT RESOLVED, that the Louisiana Public Oyster Seed Grounds not currently under lease, Bay Gardene, Hackberry Bay, and Sister Lake Oyster Seed Reservations will open one-half hour before sunrise on September 3, 1997, and

BE IT FURTHER RESOLVED, that the Bay Junop Oyster Seed Reservation will remain closed for the 1997/98 oyster season, and

BE IT FURTHER RESOLVED, that the sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Pt. To Pt. Gardner to Grace Pt. at the Mississippi River Gulf Outlet, and that this sacking only area will open one-half hour before sunrise on September 3, 1997, and

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action if necessary, to close areas if oyster mortalities are occurring, or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads, and

BE IT FURTHER RESOLVED, that the Secretary will also have the authority to take emergency action to reopen areas previously closed if the threat to the resource has ended, and

BE IT FURTHER RESOLVED, that the season for Calcasieu and Sabine Lake tonging areas will open one-half hour before sunrise on October 16, 1997 and remain open until one-half hour after sunset on April 30, 1998, and

BE IT FURTHER RESOLVED, that the notice of any opening, delaying or closing of a season will be made by public notice at least 72 hours prior to such action.

Daniel J. Babin
Chairman, Louisiana Wildlife and
Fisheries Commission

James H. Jenkins, Jr.
Secretary, Louisiana Department
of Wildlife and Fisheries

DECLARATION OF EMERGENCY

Department of Wildlife and Fisheries
Wildlife and Fisheries Commission

In accordance with the emergency provisions of the Administrative Procedure Act, R.S. 49:953(B) and 967, and under the authority of R.S. 56:433 and R.S. 56:535.1 notice is hereby given that the Secretary of the Department of Wildlife and Fisheries and the Wildlife and Fisheries Commission hereby declare:

1. The Public Oyster Seed Grounds not currently under lease, Bay Gardene Oyster Seed Reservation, Hackberry Bay, and the Sister Lake Oyster Seed Reservations will open one-half hour before sunrise September 3, 1997.

2. The Bay Junop Oyster Seed Reservation will remain closed for the 1997/98 oyster season.

3. A designated sacking only area east of the Mississippi River will open one-half hour before sunrise on September 3, 1997. The sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Point to Point Gardner to Grace Point at the Mississippi River Gulf Outlet.

4. The Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action if necessary, to close areas if oyster mortalities are occurring, or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads.

5. The Secretary is authorized to take emergency action to reopen areas previously closed if the threat to the resource subsides.

6. The Calcasieu and Sabine Lake tonging areas will open one-half hour before sunrise on October 16, 1997 and remain open until one-half hour after sunset on April 30, 1998.

7. Notice of any opening, delaying or closing of a season will be made by public notice at least 72 hours prior to such action.

Daniel J. Babin
Chairman

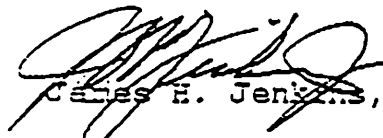
A Report on 1997 Spring Shrimp Season began with Mr. Brandt Savoie stating the National Marine Fisheries landing data would not be available until the end of the month. So, the report today would be from information gathered from the staff, what was seen at the docks and what was going on in the field. Zone 1 shrimp season had a slow start with very few shrimp landed the first week. Catches began to improve as the season progressed, but sizes remained small throughout the season. The largest size harvested was in the 40-50 count range. Dealers in Zone 1 had mixed reports on landings which could have resulted from concentrations of shrimp

DECLARATION OF EMERGENCY

Department of Wildlife and Fisheries Wildlife and Fisheries Commission

In accordance with the emergency provisions of the Administrative Procedure Act, R.S. 49:953(B) and 967, and under the authority of R.S. 56:433 and 56:435.1, and the authority given the Secretary in the August 8th Commission action; notice is hereby given that the Secretary of the Department of Wildlife and Fisheries hereby declares:

That oysters on some areas of the public oyster seed grounds are stressed due to a combination of high temperatures and salinities and some mortalities are occurring. The Secretary is closing an area east of the Mississippi River one-half hour after sunset Sunday, September 15, 1996. The area includes the outside edges of the land mass areas in Breton Sound, Plaquemines Parish; eastward of a line running from California Point to Pelican Island to Telegraph Point to the Microwave towers on Curfew Point and Stone Island then to Mozambique Point. The area will reopen one-half hour before sunrise November 1, 1996 when water temperatures will have improved.


Charles H. Jenkins, Jr.
Secretary